PRESERVED

App. F. IX-4

1940

193 .

( )

Legis

File No. 59-40

Serial Nos. 1-4.

Previous References

Later References.

124

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. for

Part B for

SUBJECT.

Census of machine tools in factories etc. in Indian States.

WD 0578—GPB—22,500—12-9-39

B.B. Shankerlan

1-4-41

4017/P840

Census of Machine Tools in factories etc in Indian State.

General and Revenue Secretariat	File No.	of 194	204/CSB [App. F. III-2

Serial No.

OFFICE OF THE
SECRETARY TO COUNCIL
JAN 6 1941
No. 6648

From

The Secretary to the Hble the Resident in Mysore

F.70-40/W dated 31.12.40

requesting that a Census may be conducted in Mysore of Machine tools, etc:—

1) It is suggested that a census of the machine tools in the possession of firms etc., in Mysore may be conducted by making use of the Defence of India Rules, applied to Mysore, and the information despatched to the Government of India, Department of Supply.

2) The letter does not apply to P.W.D. and Railway Workshops which have been or are to be surveyed nor to institutions which have been offered by Government for the training of workmen etc. (i.e Engineering College) But loans or gifts of such tools by such institutions would be welcome.

3) If approved a copy of the letter will be sent to the Director of Industries and Commerce who will be requested to send a list of factories etc., in Mysore which may be expected to possess tools of the type specified in the list. Such a list will enable notices under the Defence of India Rules being sent to the factories noted therein

Submitted for orders with a draft.

Com 4.1.41.

4) For approval

(1st member)

MG 6.1.41

CHIEF SECRETARY
4. JAN. 19
GOVT. OF MYSORE.

5) The draft may issue. Meanwhile the Chairman M.D.S.W & the Govt Director, Industrial Concerns, & the secy, John Taylor's committee Kolar Gold Field, the Bangalore Civil Works Labour Welfare may be asked to furnish the required information with regard to the workshops under their respective control

MG 6/1/41 BJ 6.1.41

NOTE—Contn. Sheet.

Census of machine tools etc. in factories etc in Indian States

File No. of 194 . | General and Revenue Secretariat

Serial No.

Issued P 3489 dated 8.1.41 to the Director of Industries & Commerce.

6/ Reference para 5 supra. Though the letter of the Residency suggests notices under the Defence of India Rules, as applied to Mysore, in the case of John Taylor & Sons' Committee and the Binny Mills at least, a letter requesting for the information may perhaps suffice.

A draft letter to the officers specified in para 5 above is accordingly submitted for orders.

One 9/1/41

7/ Attd - after obtg replies from the Members.

MHS 20/1 JHW 21/1

TYPING SECTION 21 JAN 1941 GEN. & REV. SECTT.

1 Spare

Issued P 3772-5 dated 22.1.41 to

1. Chairman M.I.S.W. Ltd Director John Taylor-Sons Committee and Binny Mills Co.

From

John Taylor-Sons Committee Organisation

letter d 23.1.41

state that the particulars will be sent in due course.

From

The Bangalore Woollen Cotton Silk Mills Co Ltd.

letter d 23.1.41

8/ Sends a copy of their letter to Director Containing particulars asked Submitted for perusal.

Letters from the others will be awaited.

One 25.1.41 hpm

9/ JHW 25/1

From

The Chairman, Mysore Iron & Steel Works Bhadravati

no 594 d 25th January 1941

forwards statement of tools available in the Works.

10/ Submitted for perusal.

Letters from the others will be awaited

One 27.1.41 hpm

11/ JHW 27/1

Census of machine tools etc. in factories in Indian States

4407 - J 44 19

General and Revenue Secretariat | File No. | of 194 . | [App. F. III-2

Serial No.

From

The Director of Industries and Commerce in Mysore

F 260/40-41 dated 25th January 1941

forwards list of factories in State with particulars of tools available therein

From

The Chairman Mysore Iron & Steel Works

no 608 d 28. 1.41 and 615 d 29.1.41

forwards particulars of machine tools in possession of the Mysore Sandalwood Oil Factory, Hassan and the Mysore Watch Co. Shimoga.

12) The Director of Industries and Commerce has sent the particulars of machine tools held by about 23 firms. This includes the Bearing Mills and the Mysore Iron & Steel Works both of which have also sent lists separately.

13) Particulars from the John Taylor & Sons Committee Bangalore and from the Govt. Director are still due.

14) The Director has also stated that particulars are still due from certain others and will be sent on receipt.

15) They will all be awaited, if approved, before sending a list to the Residency.

16) Reference is invited to para 3 of the Note. As particulars of the tools have also been furnished by the Director, no action is necessary under the Defence of India Rules, unless the Director reports that some firms have refused to give particulars.

One 3.2.41 Door

17) Noted 3/2

From

Messrs John Taylor & Sons Committee Bangalore

letter dated 4th February 1941

forwards particulars of machine tools in the 4 ghat mining Co and the Kolar Gold Electricity Department.

NOTE—Contn. Sheet.

4590 ✓ 4419 ✓ 4407 ✓ 4385 ✓ 4017

Census of machine tools etc in factories in Indian States

File No. of 194 . | General and Revenue Secretariat

Serial No.

18) The John Taylor & Sons Committee have sent particulars of machine tools held by the 4 gold mining Companies and the K.G.F Electric Department

19) Further particulars promised by the Director of Industries and Commerce are yet due. The Govt Director has also not sent particulars called for. If approved this will be awaited and a Consolidated list sent to the Govt. of India, Dept of Supply.

20) A draft to the Residency that information is being collected and will be sent on receipt of Complete information is also put up for orders

Done 11.2.41

From
The Director of Industries & Commerce.
7 290/40-4 dated 6.2.41
forwards a supplemental list

21) Previous Note
Reference has been fixed today on these matters. Please see.
11/2

22) The Director of Industries & Commerce has sent a supplemental list. One Copy of this list will be sent to the Government of India (Department of Supply) as requested in the letter from Residency.

23) An interim reply to the Residency that the list has been sent to the Govt of India and Copies will be sent to the Residency early ~~may perhaps~~ will, if approved be sent, as it may take some time to get the list typed.

24) Submitted with 2 drafts for orders.

Done 12.2.41

25) 13/2
Dear Secy) Cpe Appl Secy 15/2/41

FEB 17 1941
8221

First Member)

17/2

26) 17/2/41

17/2

27) Issued 17/2

Census of machine tools etc. in factories etc.. 5066 Dn Secretariat

General and Revenue Secretariat | File No. | of 194 . | [App. F. III-2

Serial No.

MAR 6 1941
8812

Issued P 4339 /Enc 7 dated 20.2.41 to the Secretary to the Govt. of India Dept of Supply. Calcutta.

Issued Pol 1495 d 20.2.41 to the Residency:

From

The Director. Machine Tool Control. Department of Supply

MTC/212/254/HO. dated 27.2.41

Stating that certain particulars are required - copies of which are sent to Dsl from factories :-

A list of machine tools etc., in the possession of firms and factories in Mysore was sent to the Government of India at the request of the Residency.

The Director of the Department of Supply now write that information is required in the Second Schedule forms of which are enclosed for perusal.

It is suggested that in order to save us trouble, they would send the forms direct to the factories for completion and return.

They want our approval and also that we should instruct the several factories to complete the schedules as early as possible.

We may perhaps agree to the procedure.

A draft to the Department of Supply and another to the Director of Industries and Commerce are submitted for orders.

For appl.

5.3.41

(for Secretary)

5/3/41

6/3/41

7.3.41

NOTE—Contn. Sheet.

Census of machine tools

5 5785 P

File No. of 194 | General and Revenue Secretariat

Serial No.

Issued P 4565 dt 8.3.41 to the Director of Industries - Mysore

Issued P 4566 dt 8.3.41 to the Director Machine Tool Control. Calcutta

from

The Chairman, Mysore Iron & Steel Works

Letter no 690 dated 21.2.41

Forwarding list of lists in possession of Paper Mills.

Particulars of machine tools in the following three factories have yet to be sent to the Director, Machine Tool Control Calcutta :—

1. Pape Mills. Bhadravati
2. Match Co. Shimoga.
3 Mysore Implements Factory. Hassan

A draft to the Director forwarding the list & put up for approval

from the Director of Industries & Commerce D.O. No. 290 : 40-41 dated 10.3.41. stating that circulars calling for returns have been issued

Sd/- 11.3.41

Approved

MK 12/3

Issued P 4639 encl 1 dated 12.3.41 to the Director Machine Tool Control. Calcutta

11 MAR 19 GOVT. OF MYSORE

The Residency wanted that 2 copies of the list sent to the Government of India may be sent to them. Submitted list & draft forwarding the list

Flag 7

Sd/- 20.3.41.

MK 20/3

Issued Pol. 1665 dt 21.3.41 to the Residency forwarding 2 copies of the list.

B

The reply to this communication should be addressed to the Secretary to the Resident in Mysore, Bangalore, by designation and not by name.

URGENT

No. F.70-40/W.

Pol 1163

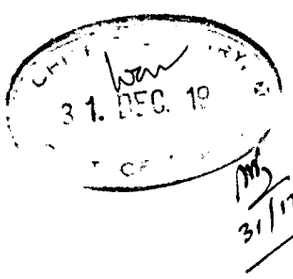
2071/CB

FROM

THE SECRETARY TO THE HON'BLE THE RESIDENT IN MYSORE.

To

The Chief Secretary to the Government of
His Highness the Maharaja of Mysore, Bangalore.



Dated Bangalore, the 31st December *1940*.

Census of machine tools in factories, etc., in Indian States.

Regis 59-40-1

SIR,

I am directed to state that the Government of India have, for some time past, been conducting a census of the machine tools in possession of firms, factories, etc., in British India by means of "Demands for Information" issued under Rule 81(2) of the Defence of India Rules as per specimen enclosed. This has resulted in the location of a considerable number of machine tools useful to the war effort. It has been suggested that a similar census may also be conducted in Indian States possessing factories, etc. I am accordingly to request that, if there is no objection, the Government of Mysore will be so good as to collect information by using their own version of the Defence of India Rules in respect of the tools enumerated in the enclosed list. The information may kindly be furnished direct to the Government of India, Department of Supply (Munitions Production Branch), Calcutta, with a copy (in duplicate) to this Residency, in order to enable the former to estimate the amount of material which may be of use for the production of munitions.

2. I am to add that the Department of Supply have been authorised to correspond direct with the Government of Mysore in this matter. Any tools which might be required by the

Government

Government of India will, however, be obtained from the State through this Residency and the Political Department.

3. I am also to point out that this letter should be regarded as not applying to State Public Works Department and Railway Workshops which have been or are to be surveyed with a view to munitions production nor to those institutions which have been offered by the Government of Mysore for the training of artisans, mechanics, etc. But if there exist in the State Public Works Department or Railway Workshops or institutions any of the tools specified in the enclosed list which are not otherwise required and which could be spared on loan or in gift, an offer of these also to the Department of Supply (Munitions Production Branch) would be greatly appreciated by the Government of India.

I have the honour to be,
Sir,
Your most obedient servant,

SECRETARY TO THE RESIDENT.

KK

GOVERNMENT OF INDIA.

DEPARTMENT OF SUPPLY.

DEMAND FOR INFORMATION

UNDER THE DEFENCE OF INDIA RULES.

No. Dated

To

_____

_____

_____

In exercise of the power conferred by Rule 81(2) of the Defence of India Rules, 1939, the Central Government is pleased to direct :-

(1) That you or your agents shall, within 20 days of the service of this order, furnish and produce to the Director General, Munitions Production, 6, Esplanade East, Calcutta, the information enumerated in Schedule A hereto annexed.

DEPUTY SECRETARY TO THE GOVERNMENT OF INDIA.

P.T.O.

SCHEDULE A.

Nature of information demanded.

Details of the following Machine Tools held by you.

W.S.B. (M.T.P.) 1. Lathes, Sliding, Surfacing & Screwcutting.
" 2. Lathes, Capstan, Turret, etc.
" 3. Shaping Machines.
" 4. Vertical Boring and Turning Mills.
" 5. Horizontal Boring and Turning Mills.
" 6. Planing Machines including open side .
" 7. Drilling Machines (Other than Radial).
" 8. Radial Drilling Machines.
" 9. Vertifical Milling Machines.
" 10. Horizontal Milling Machines.
" 11. Cylindrical, Multipurpose & Centreless Grinding Machines.
" 12. Surface Grinders.
" 13. Tool and Cutter Grinders.
" 14. Slotting Machines.
" 15. Broaching Machines.
" 16. Power Presses.
" 17. Stand Presses.
" 18. Heat Treatment Furnaces, Electric, Gas and Oil Fired.
" 19. Forging Machines.
" 20. Foundry Machines.
" 21. Saw Mill Machines.
" 22. Key Seating Machines.
" 23. Automatics.
" 24. Screwing Machines, Bolts and Pipes.
" 25. Blowers.
" 26. Compressors.
" 27. Bar Reeling Machines.

KK

To

The Director of Industries and Commerce
in Mysore.

Subject:- Census machine tools in factories etc., in Indian States.

Sir,

I am directed to forward herewith copy of letter No. F.70-40/W, dated 31st December 1940 on the above subject received from the Residency and to request you to kindly furnish Government very early with a list of factories, firms etc., in Mysore which may be expected to possess tools of the kind specified in the list sent by the Residency so as to enable the collection of the information wanted by them.

I have etc.,

6.1.41

Chief Secy. to Govt.

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

General and Revenue Secretariat

Dated, Bangalore, 8th January 1941.

No. P. 3489
Enc 3 pages

From

The Chief Secretary to the Government of His Highness the Maharaja of Mysore.

To

The Director of Industries and Commerce in Mysore,
Bangalore.

Subject:- Census machine tools in factories etc., in Indian States.

Sir,

I am directed to forward herewith copy of letter No. F.70-40/W, dated 31st December 1940 on the above subject received from the Residency and to request you to kindly furnish Government very early with a list of factories, firms, etc., in Mysore which may be expected to possess tools of the kind specified in the list sent by the Residency so as to enable the collection of the information wanted by them.

I have the honor to be,
Sir,
Your most obedient servant,

For Chief Secretary to Government.

No. P3772-5/Sec 1
& 22.1.41

To

The Chairman, Mysore Iron & Steel Works, Bhadravati.
" Government Director, Industrial Concerns.
" Secretary, John Taylor & Sons, Committee, Oorgaum.
" Managing Director, Bangalore Cotton Woollen & Silk Mills Co., Ltd.

Sir,

I am directed to state that the Government of India have for sometime past been conducting a census of the machine tools in the possession of firms, factories etc., in British India and it has been suggested that a similar census may also be conducted in Mysore under the Defence of India Rules, as applied to Mysore.

I am accordingly to request you to kindly furnish Government very early with the information in respect of tools enumerated in ths list sent herewith, with regard to the workshops under your control.

I have etc.

26/1.

Chief Secy. to Govt.

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

General and Revenue Secretariat.

No. P 3772-5 Sec 1

Dated Bangalore, 22nd January 1941

FROM

The Chief Secretary to the Government of His Highness the Maharaja of Mysore.

To

The Chairman, Mysore Iron & Steel Works, Bhadravati
The Government Director of Industrial Concerns
The Secretary, John Taylor & Sons Committee, Oorgaum
The Managing Director, Bangalore Cotton Woollen & Silk Mills Co., Ltd.

Sir,

I am directed to state that the Government of India have for sometime past been conducting a census of the machine tools in the possession of firms, factories etc., in British India and it has been suggested that a similar census may also be conducted in Mysore under the Defence of India Rules, as applied to Mysore.

I am accordingly to request you to kindly furnish Government very early with the information in respect of tools enumerated in the list sent herewith, with regard to the workshops under your control.

I have the honour to be,
Sir,
your most obedient servant,

For Chief Secretary to Government.

mk.5

SCHEDULE A.

Nature of information demanded.

Details of the following Machine Tools held by you.

W.S.B. (M.T.P.) 1. Lathes, Sliding, Surfacing & Screwcutting.
" 2. Lathes, Capstan, Turret, etc.
" 3. Shaping Machines.
" 4. Vertical Boring and Turning Mills.
" 5. Horizontal Boring and Turning Mills.
" 6. Planing Machines including open sids.
" 7. Drilling Machines (Other than Radial).
" 8. Radial Drilling Machines.
" 9. Vertical Milling Machines.
" 10. Horizontal Milling Machines.
" 11. Cylindrical, Multipurpose & Centreless Grinding Machines.
" 12. Surface Grinders.
" 13. Tool and Cutter Grinders.
" 14. Slotting Machines.
" 15. Broaching Machines.
" 16. Power Presses.
" 17. Stand Presses.
" 18. Heat Treatment Furnace; Electric, Gas and Oil Fired.
" 19. Forging Machines.
" 20. Foundry Machines.
" 21. Saw Mill Machines.
" 22. Key Seating Machines.
" 23. Automatics.
" 24. Screwing Machines, Bolts and Pipes.
" 25. Blowers
" 26. Compressors.
" 27. Bar Reeling Machines.

For Chief Secretary to Government.

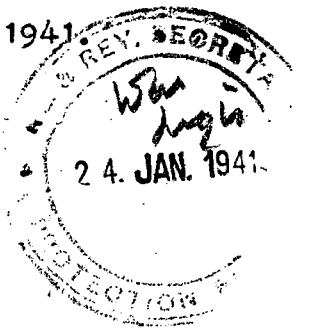
mk.5

4324 Gen

TELEGRAPHIC ADDRESS:-
"COMMITTEE" OORGAUM.

MESSRS. JOHN TAYLOR & SONS' COMMITTEE,
OORGAUM,
SOUTH INDIA.

January. 23. 1941.



The Chief Secretary
to the Government of Mysore,
Bangalore.

Sir,

24/1/41

Census of Machine Tools.

I have the honour to acknowledge receipt of your letter No.P.3772 dated 22nd instant with reference to above and to state that the matter is receiving attention and the particulars asked for will be submitted to you in due course.

I have the honour to be,
Sir,
Your most obedient servant,

Secretary.

RRC.

4385 P/40

THE BANGALORE WOOLLEN, COTTON & SILK MILLS CO. LD.

TELEGRAPHIC ADDRESS:
WOOLLEN BANGALORE.

TELEPHONE No. 2037

BANGALORE CITY. 23rd. Jan. 1941.

The Chief Secretary to the
Government of His Highness,
the Maharaja of Mysore
BANGALORE.

CHIEF SECRETARY * 24 JAN 1941 * GOVT. OF MYSORE.

Dear Sir,

BINNY & Co. (MADRAS) LTD

Census of Machine Tools.

We have your letter F 3772 dated 22nd. January and have already given the information called for to the Director of Industries & Commerce in Mysore Bangalore in reply to his letter F 290/40-41 dated 16th January as copies enclosed.-

THE BANGALORE WOOLLEN COTTON & SILK MILLS COMPANY LIMITED BANGALORE REGISTERED No. 04359

AGENTS SECRETARIES

Yours faithfully,
For The Bangalore Woollen, Cotton & Silk Mills Co., Ltd.,
For and on behalf of
BINNY & CO., (MADRAS) LTD.,

AGENTS. SECRETARIES & TREASURERS.

M.M.

COPY.

Bangalore City,

18th. January 1941.

The Director of Industries & Commerce In Mysore,

BANGALORE.

Dear Sir,

CENSUS OF MACHINE TOOLS IN FACTORIES.

Referring to your letter F290/40-41 dated 16th January we enclose a list of machine tools in the Mills.

We would point out that these machines are working day and night and yet are not able to cope with the demand for spares and repairs for the upkeep of the Mill machinery, most of which is engaged in the execution of Government orders.

None of the Machines can therefore be spared.

Yours faithfully,

Sd/- J.A. MacGregor.

Copy.

Engineering Dept.,

Letter dated [illegible]

The Director of Telephone & Co. [illegible] Works,

[illegible]

Dear Sir,

CENSUS OF [illegible] IN [illegible]

Referring to your letter PE30/40-41 dated 16th January we enclose a list of machine tools in the Mill.

We would point out that these machines are working day and night and yet are not able to cope with the demand for spares and repairs for the upkeep of the Mill machinery, most of which is engaged in the execution of Government orders.

None of the Machines can therefore be spared.

Yours faithfully,

Sd/- J. A. MacGregor.

Details of machine tools in Bangalore Woollen,
Cotton & Silk Mills Co.,Ltd.Bangalore.

W.S.B.(M.T.P.)	Lathes, Sliding, Surfacing and Screw-cutting	18
	Lathes, Capstan, Turret, etc.,	-
	Shaping Machines.	2
	Vertical Boring and Turning Mills,	-
	Horizontal Boring and Turning Mills,	-
	Planing Machines including open side,	1
	Drilling Machines(other than Radial),	4
	Radial Drilling Machines,	3
	Vertical Milling Machines,	-
	Horizontal Milling Machines,	1
	Cylindrical, Multipurpose & Centreless Grinding Machine	-
	Surface Grinders,	1
	Tool and Cutter Grinders,	-
	Slotting Machines,	1
	Broaching Machines,	-
	Power Presses,	-
	Stand Presses,	-
	Heat Treatment Furnaces, Electric, G & Oil Fired	-
	Forging Machines,	
	Foundry Machines,	
	Saw Mill Machines,	
	Key Seating Machines,	
	Automatics,	
	Screwing Machines, Bolts & Pipes,	1
	Blowers,	2
	Compressors,	2
	Bar Reeling Machines,	

Details of Machine Tools in Bangalore Woollen,
Cotton & Silk Mills Co., Ltd., Bangalore.

Lathes (H.P.) Engine, Turning, Screwing and Fluting	18
Drills, Single, Gang, Turret, etc.,	-
Planing Machines,	2
Universal Boring and Turning Mills,	-
Horizontal Boring and Turning Mills,	-
Planing Machines including open side,	1
Drilling Machine-(other than Radial),	4
Radial Drilling Machines,	2
Vertical Milling Machines,	-
Horizontal Milling Machines,	1
Cylindrical, Multiprocess & Centreless Grinding Machine	-
Surface Grinders,	1
Tool and Cutter Grinders,	-
Slotting Machines,	1
Broaching Machines,	-
Power Presses,	-
Steam Presses,	-
Heat Treatment Furnaces, Electric, Gas & Oil Fired	-
Forging Machines,	-
Foundry Machines,	-
Saw Mill Machines,	1
Key Seating Machines,	-
Automatics,	-
Screwing Machines, Pipe & Tubes,	1
Blowers,	2
Compressors,	2

Mr. M. VENKATANARANAPPA,
CHAIRMAN,
Mysore Iron & Steel Works, etc.

BHADRAVATI,

4407 P&C

GOVERNMENT OF MYSORE

SECRETARIAT WAR 27 JAN 1941 PROTECTION

No. 594.

Bangalore,
25th January 1941.

The Chief Secretary to Government,
Public Offices,
Bangalore.

CHIEF SECRETARY 25 JAN 19 GOVT. OF MYSORE.

Dear Sir,

With reference to your letter No.P 3772-5 dated 22nd January 1941 I send herewith a statement giving particulars of machine tools available in the Mysore Iron and Steel Works. A copy of the statement was also furnished by the Works to the Director of Industries and Commerce in Mysore, Bangalore, in reply to a similar communication received from him.

Yours faithfully,

M. Venkatanaranappa

CHAIRMAN.

Encl:1)

THE MYSORE IRON AND STEEL WORKS: BHADRAVATI.

DETAILS OF MACHINERY IN THE MACHINE SHOP OF THE MYSORE IRON AND STEEL WORKS: BHADRAVATI.

Sl.No.	Type of Machine.	Manufacturers.	Brief Discription.	Remarks.
1.	L a t h e s. Sliding, Surfacing and screw cutting.	Denham, England.	Distance between centres - 96" Length of bed - 105" Medium work. Motor H.P.5. Height of the centre to the bed - 10/1/2". ~~Length of bed - 54". B~~	Ordinary work.
2.	-do-	Clark's Machine Tool Company, Albion Works, England.	Length of bed - 54". Distance between centres - 44". Motor H.P.1. Height of the centre to the bed - 6".	Small lathe.
3.				
4.	-do-	Clarks Machine Tool Company, Albion Works, England.	Length of bed - 138" Swing on saddle - 27". Distance between centres - 10'-8". Motor H.P.5.	
5.	-do-	Monarch Machine Company, U.S.A.	Length of bed - 55". Swing on saddle - 11". Distance between centres - 49".	Medium lathe.
6.	-do-	Dean Smith Grace Company, England.	Length of bed - 59". Swing on saddle - 10 1/2". Distance between centres - 43". Motor H.P.5.	Bought second-hand.
7.	-do-	The Hendey Manufacturing Co., Torrington U.S.A.	Length of bed - 92". Swing on saddle - 9". Distance between centres - 71". Motor H.P.5.	Small work.

8.	-do-	Kranse Company, Berlin.	Length of bed - 54". Swing on saddle - 6 1/2". Distance between centres - 40". Motor H.P.1.2.	Small lathe.
9.	-do-	The Birmingham Foundry & Co., USA.	Length of bed - 108". Swing on saddle - 15". Distance between centres - 41". Motor H.P. 7.5	Bought second-hand, Bombay.
10.	-do-	The Rahu Larmon Co., Cincinati, U.S.A.	Length of bed - 48". Swing on saddle - 9". Distance between centres - 68". Motor H.P.10.	For general use.
11.	-do-	Wardhaggas & Smith, Keighley.	Twin centres. Heavy duty engine lathe. Height of centres to the bed - 16 1/2" and 30 1/2". Motor H.P.10. Distance between centres - 15'.	Heavy work.
12.	-do-	Betters - Bridgeford, Rochester. N.Y. U.S.A.	Length of bed - 16'-6". Distance between centres - 13'-8 1/2". Height of the centre to the bed 18". Motor H.P.25.	Gears require replacement.
13.	-do-	Smith Convertray & Co., Manchester. England.	Length of bed - 30'. Distance between centres - 23'-6". Height of the centre to the bed - 26 1/2" Motor H.P.10.	
14.	-do-	Bangalore Industrial Workshop.	Length of bed - 42". Swing on saddle - 13". Motor H.P.10.	
15	Lathes, Sliding, Surfacing and Boring without screw-cutting.		Length of bed - 84". Swing without saddle - 27". Motor H.P.10.	Bought as scrap.
16.	-do-	D. New & Co., Makers, Nottingham.	Swing of the Saddle - 28" length of bed 123". Length of bed 10'-3"	Bought second hand (very slow work).
17.	-do-	John Lang & Sons, Ltd., Johnstone.	Length of bed - 66". Swing on saddle 39". Distance between centre 41".	Bought second hand. Bombay.
18.	Shaping Macines.	The Rakelly Co., Xenia 'o USA.	Stroke - 0" to 20" . Bed travel 24". Motor H.P.10.	Bought secondhand

Sl.No.	Type of Machine.	Manufacturers.	Brief Discription.	Remarks.
19.	Shaping Machine.	Hecules Macline Tools, England.	Stroke - 14". Maximum stroke - 2" Minimum Motor H.P.10.	Medium work.
20.	-do-	Niles Bement Works, Philedelphia.	Stroke - 22". Maximum. Stroke 2" minimum. Motor H.P.10.	Small size work only.
21.	Verticle Boring and Turning Mill.	Webster & Bement Co. Ltd., Coventry, England	Stroke - 24". Cross rail travel 26" & 18". Motor H.P.10	Secondhand. Bombay.
22.	Horizontal Boring and Turning Mills.	D. & J.Tullis, Ltd., Clyde Band.	Length of bed - 5'. Width - 3' Motor H.P. 5.	Secondhand Rough Drilling.
23.	-do-	William Muir & Co. Ltd. Manchester. England	Length of bed 63". Distance between swindle centre and cros table - 40". Motor H.P.5.	Secondhand. Slow Work.
24.	Planing Machines.	The Liberty Tool Machine Co., Hamilton. U.S.A.	Length of bed - 10'-9" and width - 20". Motor H.P.5.	Requires complete overhaul (Small work).
25.	Planing Machine with Open side	White Machine Tool Co., Ltd. Halifox. England.	Length of bed - 17'-6". Width - 3'-10". Motor H.P.25	Open sided. Heavy work.
26.	Drilling Machines.	Corona. England.	Capacity 1/32" to 1 1/4". Table dia: 18". Motor H.P.5.	Secondhand. Rough work.
27.	Drilling Machines.	Fairbanks Co., U.S.A.	Capacity - 1/32" to 1 1/4". Table dia: 18". Motor H.P.5.	Not fit for accurate work.
28.	Drilling Machine.	-do-	Capacity - 1/32" to 1 1/4". Table dia: 18". Motor H.P.3.	Small. Not accurate.
29.	Radial Drilling Machine.	Sheppard Hill & Co., Leeds.	Capacity Maximum 3". Minimum 1/4". Motor H.P.5.	Secondhand. Very rough work
30.	Radial Drilling Machine.	Beruk and Coneerns, Anvers.	Capacity - 1/4" to 3". Motor 7.5. HP	General Work.
31.	Horizontal Milling Machines	Robson Universal Miller. 2 A.	Bed Travel 18". Crosswise. Bed travel 24". Motor H.P.5.	Second hand.

32.	-do-	Le Blond No.2. Heavy Duty Miller. U.S.A.	Length of Bed travel 10' Motor H.P.5.	
33.	Slotting Machines.	The Dean Smith & Grace Tool Makers, Keighley, Yorks, England.	Max: stroke 10". Table dia: 42" Motor H.P.10	Second hand. Rough work.
34.	-do-		Stroke 10". Table dia: 31" Motor H.P.10	-do-
35.	Power Press.	Niles Bement Pond Co. Hamilton. Ohio.	Capacity Tons on 9" ram 200 tons. Motor H.P.3.	General use.
36.	Stand Press.	Atlas Compound Hand Press Co., Kalazoomien U.S.A.		Secondhand for small work only.
37.	Screwing Machines Bolts & Pipes.	William Tools Co. Eriepansa.	Max: Capacity 4". Minimum 1/2" Motor H.P.10.	Practically useless.
38.	Compressors.	Ingersoll Rand & Co. New York.	Air 10 x 8. Motor H.P.25	
39.	-do-	Consolidated Pneumatic Tool Co.	Motor H.P.30.	
40.	Bar & Plate Rolling Machine.	Graig & Donald, Ltd. Johnstone. Scotland.	Capacity 9'-5/8". Plate Motor H.P.15.	Requires Heavy repairs.

KSJ
25/1/41

2465

Mr. M. VENKATANARANAPPA,
CHAIRMAN,
Mysore Iron & Steel Works, etc.

BHADRAVATI,

Bangalore,

No. 615

29th January 1941.

The Chief Secretary to Government,
Public Offices,
Bangalore.

CHIEF SECRETARY. 29. JAN. 1941 GOVT. OF MYSORE.

Dear Sir,

In continuation of my letter No.608 of the 28th instant, I send herewith a statement giving particulars of machine tools in the possession of The Mysore Match Company, Ltd., Shimoga.

Yours faithfully,

Chairman,
The Mysore Match Co.,

Encl:1)

THE MYSORE MATCH CO., LTD., SHIMOGA

NOTE

Date 28th Jan. 1941.

With reference to Memo No.581 dated 23-1-1941, asking for information in respect of Tools, I give below a list of tools in our possession.

1. Sliding, surfacing and screw-cutting Gap Bed Lathe with front feed shaft and apron saddle with four quick - changes of feed. Admits between centres 4' swing over the saddle, 10" diameter. ... ONE.
2. Shaping Machine 12" stroke ... ONE.
3. Pillar-drilling Machine. Distance between pillar and ~~chook~~ Chuck centre 18". ONE.

CHAIRMAN). 28.1.41 C.B. Chann

2464

Mr. M. VENKATANARANAPPA, B.A.,
CHAIRMAN,
Mysore Iron & Steel Works, etc.

BHADRAVATI,

Bangalore,
28th January 1941.

No. 608.

The Chief Secretary to Government,
Public Offices,
Bangalore.

CHIEF SECRETARY * 29 JAN 1941 * GOVT. OF MYSORE.

Dear Sir,

Further to my letter No.594 dated the 25th instant, I send enclosed a statement giving particulars of machine tools in the possession of The Mysore Implements Factory, Hassan.

Yours faithfully,

Chairman.

Encl:1)

List of machines we hold in the Workshop.

1. One Imperial Lathe of 6 ft. length and 4 ft. sliding surface and screw cutting.
2. One Drilling machine non radial up to 1" drilling capacity
3. " " " " " up to ¼" " "
4. One Electric Mufful Furnace for heat treatment up to 1000 degrees Centigrade. Inside measurement 6" x 3" x 12"
5. Two pnumatic Power Hammers 3 cwts. for forging.
6. One " " " 2 " " "
7. One spring hammer for forging 100 lbs.
8. Two " hammers " " 60 lbs each.
9. Fan blower 8" one and 6" one.
10. 8" Circular Saw-bench one.

C. L. Menon

GENERAL MANAGER.
THE MYSORE IMPLEMENTS FACTORY.

4413/P 260

Tele { Phone No. 2004
Grams—INDUSCOM.

In reply please quote number, date & short title.

GOVERNMENT OF MYSORE

DEPARTMENT OF INDUSTRIES AND COMMERCE.

FROM

B.G.A. Mudaliar, Esq., B.A., B.Sc., A.M.I.Mech.E.,
Director of Industries and Commerce in Mysore,
Bangalore.

To

Rajasevaprasakta
B.T. Kesavaiengar, Esq., B.A.,
Chief Secretary to the Government of
His Highness the Maharaja of Mysore,
Bangalore.

P.P. 27/1/41

No. F.260/40-41. Dated 25th January 1941.

Enclosures 3 sets of Statements (in duplicate)

SIR,

Census of Machine Tools.

With reference to your letter No. P.3489 dated the 8th January 1941 on the above subject, I have the honour to send herewith a list of Factories in the State with particulars of machine tools available therein.

Copies of statements of machine tools available in the Government Electric Factory and the Mysore Iron and Steel Works are prepared separately which are also submitted herewith.

The Kolar Gold Mining Companies and a few other concerns have not yet furnished details, which will be submitted soon after receipt.

The Mysore Railways and the Public Works Department, who have also been addressed to furnish information as regards the particulars of tools, if any, not in use in their Workshops (vide last para of Residency's letter sent with your letter) have not yet replied. They have been requested to expedite, and soon after the information required is received from them, I shall send the same to you.

I have the honour to be,
Sir,
Your most obedient servant,
B.G.A. Mudaliar
Director.

VERY URGENT.

2539

CB.

The reply to this communication should be addressed to the Secretary to the Resident in Mysore, Bangalore, by designation and not by name.

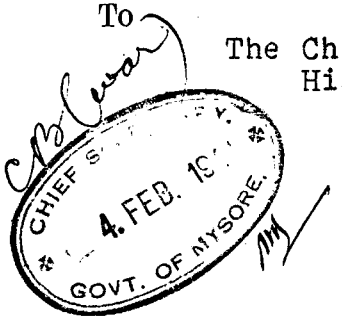
No. F.70-40/W

FROM

THE SECRETARY
TO THE HON'BLE THE RESIDENT IN MYSORE.

To

The Chief Secretary to the Government of
His Highness the Maharaja of Mysore,
Bangalore.



Dated Bangalore, the 4th February *194*1.

CENSUS OF MACHINE TOOLS IN FACTORIES, ETC., IN INDIAN STATES.

SIR,

I am directed to refer to my letter No.F.70-40/W, dated the 31st December 1940, and to enquire whether the information asked for has been collected and sent to the Government of India, Department of Supply.

I have the honour to be,
Sir,
Your most obedient servant,

for SECRETARY TO THE RESIDENT.

KRG

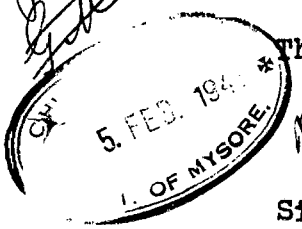
VN

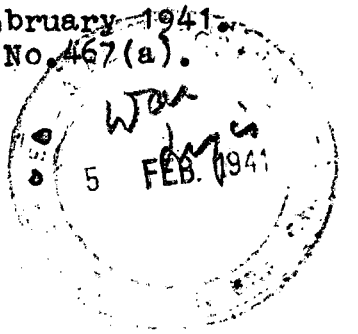
TELEGRAPHIC ADDRESS:-
"COMMITTEE" OORGAUM.

MESSRS. JOHN TAYLOR & SONS' COMMITTEE,
OORGAUM,
SOUTH INDIA.

4590
P

4th February 1941.
Ref. No. 467(a).





The Chief Secretary
to the Government of Mysore,
Bangalore.

Sir,

Census of Machine Tools.

In continuation of my letter dated 23rd ultimo I have the honour to enclose herewith particulars received from the four Mining Companies and the K.G.F. Electricity Department with reference to above which I trust will meet vour requirements.

I have the honour to be,
Sir,
Your most obedient servant,

Secretary.

KVC.

To

The Secretary to the Hon'ble the Resident.

Subject:- Census of Machine tools in Factories, etc., in Indian States.

Sir,

With reference to your letter No. F.70-40/W, dated 4th February 1941 on the above subject, I am directed to state that the information asked for is being collected and will be sent to the Government of India, Department of Supply on receipt of complete information.

I have etc.,

Chief Secy. to Govt.

467/40

Tele { Phone No. 2004
Grams—INDUSCOM.

In reply please quote number, date & short title.

GOVERNMENT OF MYSORE

DEPARTMENT OF INDUSTRIES AND COMMERCE.

CHIEF SECRETARY'S OFFICE
11. FEB. 1941

FROM

B.G.A. Mudaliar, Esq., B.A., B.Sc., A.M.I.Mech.E.,
Director of Industries & Commerce in Mysore,
Bangalore.

To

IMMEDIATE.

Rajasevaprasakta
B.T. Kesavaiengar, Esq., B.A.,
Chief Secretary to the Government of Mysore.
Bangalore.

No. F. 290/40-41.

Dated 6th February 1941.

Enclosures Statements. (in Duplicate)

SIR,

Re: Census of machine tools.

In continuation of my letter of even number dated 25th January 1941 on the above subject, I have the honour to send herewith a supplemental statement containing information regarding particulars of machine tools in the possession of the Kolar Gold Mining Companies and other factories and workshops in the State mentioned in the accompanying statement.

I wish to state in this connection that the Secretary, Messrs. John Taylor and Sons' Committee has intimated in his letter dated 22-1-1941 (extract enclosed), that all machine tools as are suitable and available in situ have already been ear-marked for the local production of munitions by the Roger Commission.

I have the honour to be,
Sir,
Your most obedient servant,

B.G.A. Mudaliar
Director.

ks)2.

8/6/2

Extract from letter dated 22nd January 1941 from Messrs. John Taylor & Sons' Committee, Oorgaum, to the Director of Industries & Commerce in Mysore, Bangalore.

Census of Machine tools.

With reference to your letter No.F.290/40-41 dated 21st instant I have to inform you that particulars of machine tools in use in the Workshops of the Mining Companies on the Kolar Gold Fields are in course of preparation and will be sent to you in due course.

x x x

x such machines as are suitable and available in situ are already ear marked for the local production of Munitions by the Roger Commission.

COPY

H. V. Siddaliyappa
for Director.

ks)

6/12

D 4337/Sec 7

dated 20.2.41

To

The Secretary to the Government of
India,
Department of Supply,
(Munition Production Branch)
Calcutta.

Subject:-Census of machine tools in factories, etc., in Indian States.

Sir,

I am directed to state that the Residency had suggested that a census of machine tools in the possession of firms, factories etc., in Mysore may be conducted and the information so collected sent to you.

I am accordingly to forward ~~herewith~~ a list of such tools in the possession of factories and firms in Mysore [~~but to state~~ that the availability of the tools for the use of the Government of India in the war effort will obviously depend on whether any can be spared by the factories or firms without deteriment to their interests such as carrying out their orders etc.]

Subject to approval.

I have etc.,

15/4/41

Chief Secy. to Govt.

13/2

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

General and Revenue Secretariat

Dated, Bangalore, 28th February 1941.

No. P4339/Secy 7

Legis 59-60-2

From

The Chief *Secretary to the Government of His Highness the Maharaja of Mysore.*

To

The Secretary to the Government of India,
Department of Supply,
(Munition Production Branch),
Calcutta.

Subject:- Census of machine tools in factories etc., in Indian States.

Sir,

I am directed to state that the Residency had suggested that a census of machine tools in the possession of firms, -- factories etc., in Mysore may be conducted and the information so collected sent to you.

I am to forward accordingly a list of such tools in the possession of factories and firms in Mysore.

I have the honor to be,
Sir,
Your most obedient servant,

Ag. Chief Secretary to Government

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

General and Revenue Secretariat

Dated, Bangalore. 20-2-1940

No. Rel 1495

Legis 59-40-3

From

The Chief Secretary to the Government of His Highness the Maharaja of Mysore.

To

The Secretary to the Hon'ble the Resident in Mysore.

Sir,

Subject:- Census of machine tools in factories etc., in Indian States.

With reference to your letter No.F.70-40/W, dated 31st December 1940 on the above subject and the reminder thereto, I am directed to state that a list of machine tools in the possession of firms and factories in Mysore has this day been sent to the Government of India, Department of Supply. Two copies of the list will be sent to you very early.

I have the honor to be,
Sir,
Your most obedient servant,

20/2

for Ag Chief Secretary to Government.

Pol 1495
20.6.41

To

The Secretary to the Hon'ble the
Resident.

Subject:- Census of machine tools in
factories etc., in Indian
States.

Sir,

With reference to your letter No.
F.70-40/W, dated 31st December 1940 on
the above subject, and the reminder thereto
I am directed to state that a list of
machine tools in the possession of firms
and factories in Mysore has this day been
sent to the Government of India, Department
of Supply. Two copies of the list will
be sent to you very early.

I have etc.,

15/5/41

Chief Secy. to Govt.

13/2

Telegraphic Address :—"WARDPENG."
Telephone Nos. **Regent 820—825.**

5066/40 P&O

No. MTC/212/254/HO.

GOVERNMENT OF INDIA.

DEPARTMENT OF SUPPLY,

ENGINEERING COMMISSION,
MACHINE TOOL CONTROL,
6, Esplanade East.

Calcutta, the 27th February 1941.

By Regd Post

From

CHIEF SECRETARY 14 MAR 1941 GOVT. OF MYSORE.

Mr. C.W. Budd,
Director, Machine Tool Control,
Department of Supply,
6 - Esplanade East,
Calcutta.

4/3/41

To

The Chief Secretary to the Government
of His Highness the Maharaja of Mysore,
General and Revenue Secretariat,
Bangalore.
(Mysore State.)

Machine Tool Census.

Sir,

I have the honour to acknowledge your letter No. P4339/EMC.7 dated the 20th February 1941, enclosing list of Machine Tools installed in workshops and factories in your State.

Key "U"

2. I am enclosing herewith for your perusal a complete set of Second Schedules which indicate the particulars of each Machine Tool which are required to complete the Census.

3. I am directed to suggest that in order to alleviate your department from considerable work the relevant Second Schedules be sent from this office direct to the managers of the factories enumerated in your list, for them to complete and return to here.

4. Before proceeding on these lines I have the honour to await your approval and agreement in which case I am requested to ask you to instruct the various managers to complete the Schedules as early as possible.

I have the honour to be,
Sir,
Your most obedient servant,

C.W. Budd

DIRECTOR, MACHINE TOOL CONTROL.

Enclosures:- A complete set of Second Schedules - (W.S.B. - M.T.P.- No. 1 to 27 and Supplementary No. 1).

DVSharma.

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

General and Revenue Secretariat

Dated, Bangalore, 8th March 1941.

No. P 4565-

From

The Chief Secretary to the Government of His Highness the Maharaja of Mysore.

To

The Director of Industries and Commerce in Mysore,
Bangalore.

Sir,

Subject:- Census of machine tools.

I am directed to invite reference to correspondence on the above subject ending with your letter No.F.290/40-41, dated 6th February 1941 and to state that the Government of India, Department of Supply want particulars of each machine tool to be given in a specified form in order to complete the census.

As the Government have agreed to the relevant forms being sent by the Government of India direct to the factories enumerated in the lists sent by you, I am to request you to kindly instruct the factories concerned to complete and return as early as possible the forms that may be sent to them by the Government of India.

I have the honor to be,
Sir,
Your most obedient servant,

8/3

For Chief Secretary to Government.

No. P 4565 & 8.3.41

To

The Director of Industries and
Commerce.

Subject:- Census of machine tools.

Sir,

I am directed to invite reference to correspondence on the above subject ending with your letter No. F. 290/40-41 dated 6th February 1941 and to state that the Government of India, Department of Supply want particulars of each machine tool to be given in a specified form in order to complete the census.

As the Government have agreed to the relevant forms being sent by the Government of India direct to the factories enumerated in the lists sent by you, I am to request you to kindly instruct the factories concerned to complete and return as early as possible the forms that may be sent to them by the Government of India.

I have etc.,

5/3

Chief Secy. to Govt.

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

General and Revenue Secretariat

Dated, Bangalore, 8th March 1941.

No. P 45-66

From

The Chief Secretary to the Government of His Highness the Maharaja of Mysore.

To

The Director,
Machine Tool Control,
Department of Supply,
6, Esplanade East,
Calcutta.

Sir,

Subject:- Machine Tool Census.

I am directed to acknowledge your letter No. MTC/212/254/Ho, dated 27th February 1941 on the above subject together with a complete set of Second Schedules and to state that Government are agreeable to your suggestion to the relevant Second Schedules being sent direct to the factories enumerated in the list furnished to you.

I am to add that the factories will be instructed to complete and return the schedules as early as possible.

I have the honor to be,
Sir,
Your most obedient servant,

Chief Secretary to Government.

No. P 4566 dt 8.3.41

To

The Director,
Machine Tool Control,
Department of Supply,
6, Esplanade East,
Calcutta.

Subject:- Machine tool census.

Sir,

I am directed to acknowledge your letter No. MTC/212/254/Ho., dated 27th February 1941 on the above subject together with a complete set of Second Schedules and to state that Government are agreeable to your suggestion to ~~send~~ being sent the relevant Second Schedules direct to the factories enumerated in the list ~~sent~~ furnished to you.

I am to add that the factories will be instructed to complete and return the schedules as early as possible.

I have etc.,

5/3

Chief Secy. to Govt.

LIST OF MACHINE TOOLS The Mysore Paper Mills,Ltd.
Bhadravati.

Improved heavy type "London", Self lotting, Slotting, Surfacing and Screw cutting LATHE -

with "Pratt" Dog chuck

Length of Bed	=	10 ft.
Width " "	=	12 inches
Height of centre	=	6½ "
Between centres	=	77 "
Collet spindle	=	2 1/16"
"Pratt" Chuck	=	15 inches

ii) High speed precision drilling machine, column style with drilling capacity up to 1½", and with universal swivelling vice and table -

Distance centre of spindle to column = 13½"

iii) High speed crank shaping machine with cone pulley drive and with detachable table, swivelling vice etc., -

Stroke = 12 inches

iv) Precision roll grinding machine of Voiths' make to accommodate rolls up to 3200 mm dia., and 3000 mm face length

v) Tool grinder to accommodate two grinding stones each 12" dia and two inches vide

vi) Air compressor set of a Chicago Pneumatic Tool Company -

Diameter of Piston	=	5½"
Stroke " "	=	5"
Normal R.P.M.	=	600
Minimum R.P.M.	=	300
Maximum Pressure (continuous operation)	=	150 lbs., per sq.inch
Lubricating oil capacity	=	1/2 gallon

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mpam
25-2-1941.

M. VENKATANARANAPPA.
CHAIRMAN.
MYSORE IRON & STEEL WORKS, Etc.

GOVERNMENT OF MYSORE

SECRETARIAT BANGALORE

No. 690

27th February 1941.

The Chief Secretary to Government,
Public Offices,
Bangalore.

Dear Sir,

In continuation of my letter No.615 of the 29th January, I send herewith a statement giving particulars of machine tools in the possession of the Mysore Paper Mills, Ltd. Bhadravati.

Yours faithfully,

Chairman,
The Mysore Paper Mills, Ltd.

Encl:1 list)

LIST OF MACHINE TOOLS The Mysore Paper Mills Ltd.,
-:-- Bhadravati.

i) Improved Heavy Type "London", Self Acting, Sliding, Surfacing and Screw cutting LATHE -

with "Pratt" Dog chuck

Length of Bed	=	10 ft.
Width " "	=	12 inches
Height of centre	=	8½ "
Between centres	=	77 "
Hollow spindle	=	2 1/16
"Pratt" chuck	=	16 inches

ii) High speed precision drilling machine, column style with drilling capacity up to 1¼", and with universal swivelling vice and table -

Distance centre of spindle to column = 13¾"

iii) High speed crank shaping machine with cone pulley drive and with detachable table, swivelling vice etc. -

Stroke = 12 inches

iv) Precision roll grinding machine of Voiths' make to accommodate rolls up to 3200 mm dia. and 3000 mm face length

v) Tool grinder to accommodate two grinding stones each 12" dia and two inches vide

vi) Air compressor set of the Chicago Pneumatic Tool Company ;

Diameter of Piston	=	5½"
Stroke " "	=	5'
Normal R.P.M.	=	600
Minimum R.P.M.	=	300
Maximum Pressure	=	150 lbs., per sq. inch (continuous operation)
Lubricating oil capacity	=	1/2 gallon

General

26/2/41

npsm
26-2-1941

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

General and Revenue Secretariat

Dated, Bangalore. 12/18 March 1941.

No. P4639 Secl.

From

The Chief Secretary to the Government of His Highness the Maharaja of Mysore.

To

The Director,
Machine Tool Control,
Department of Supply,
6, Esplanade East, Calcutta.

Sir,

Subject:- Machine Tool Census.

In continuation of this office letter No. P. 4339, dated 20th February 1941 on the above subject sending a list of machine tools in the possession of certain factories and firms in Mysore, I am directed to forward herewith a further list of such tools in the possession of certain other factories in Mysore.

I have the honor to be,
Sir,
Your most obedient servant,

Chief Secretary to Government.

No. P.4639/Encl 8 12.3.41

The Director,

Machine Tool Control,

Department of Supply,

6, Esplanade East, Calcutta

Subject:- Machine Tool Census.

Sir,

In continuation of this office letter No.P.4339 dated 20th February 1941 on the above subject sending a list of - machine tools in the possession of certain factories and firms in Mysore, I am directed ~~kxf~~ to forward herewith a further list of such tools in the possession of certain other factories in Mysore.

I have etc.,

12/3

Chief Secretary to Government

Tele { Phone 2004
Grams—Induscom.

In reply please quote No., date and brief title

DEPARTMENT OF INDUSTRIES AND COMMERCE.

From B.G.Appadorai Mudaliar, Esq., B.A., B.Sc.,(TECH)
(Manchester) A.M.I.,MECH.E.(Eng)
Designation Director of Industries and Commerce in Mysore,
Bangalore.

CHIEF SECRETARY 11 MAR 1941 GOVT. OF MYSORE

To Rajasevaprasakta
B.T. Kesaviengar, Esq., B.A.,
Chief Secretary to Government of Mysore,
Bangalore.

No. P. 290/40-41. Dated 10th March 1941.

Encl.

SIR,

Subject:- Census of machine tools.

I have the honour to acknowledge the receipt of your letter No.P.4565 dated 8th March 1941 on the above subject and to state that a circular will be sent to the concerned factories requesting them to furnish the information required by the Government of India in the forms sent by them

I have the honour to be,
Sir,
Your most obedient servant,

Director

M.M)10-3-41.

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

General and Revenue Secretariat

Dated, Bangalore. 21st March 1941

No. Pol 1665 Pols 2

From

The Chief Secretary to the Government of His Highness the Maharaja of Mysore.

To

The Secretary to the Hon'ble the Resident in Mysore.

Sir,

Subject:- Census of Machine Tools.

As desired in your letter No. F. 70-40/W, dated 31st December 1940 on the above subject, I am directed to forward herewith two copies of the list of machine tools in the possession of firms and factories in Mysore which was sent to the Government of India, Department of Supply, Calcutta.

I have the honor to be,
Sir,
Your most obedient servant,

21/3

Chief Secretary to Government.

To

The Secretary to the Hon'ble the
Resident in Mysore.

Subject:- Census of Machine Tools.

Sir,

As desired in your letter No.F.70-40/W, dated 31st December 1940 on the above subject, I am directed to forward herewith two copies of the list of -- machine tools in the possession of firms and factories in Mysore which was sent to the Government of India, Department of Supply, Calcutta.

I have etc.,

20/3

for Chief Secy. to Govt.

5 Copies)

Sl. No.	Name and address of Factory possessing Machine Tools	Lathes, sliding, surfacing and screw cutting.	Lathes, capstain, turret, Etc.	Shaping Machines	Vertical Boring & Turning Mills	Horizontal Boring and turning "	Planing Machines including open side	Drilling machines other than radial	Radial Drilling machines	Vertical Milling Machines	Horizontal Milling Machines	Grinding machines, cylindrical multipurpose and centreless	Surface grinders	Tool & Cutter Grinders	Slotting Machines	Broaching machines	Power Presses
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.	The Bangalore Woollen, Cotton & Silk Mills, Co., Ltd., Bangalore	18	-	2	-	-	1	4	3	-	1	-	1	-	1	-	-
2.	The Central Industrial Workshop, Bangalore	13	1 (under repairs)	3 (One not in working order)	-	1	2 (small)	3	2	- (universal)	1	-	-	2	2	-	-
3.	The Steell Construction Co.,Ltd Hardinge Road Shankarapuram Basavangudi P.O. Bangalore.	5	-	2	-	-	1	2	-	1	3	-	1	-	1	-	-
4.	The Globe Iron Foundry,Magadi Road,Bangalore	3	1 wheel turning lathe not in service	1	-	-	1	2	-	-	-	-	1	-	1	-	-
5.	Messrs.Shanmugam & Sons. Engineering works and repair workshop. Kalasipalyam,B.City	Particulars not received.															
6.	The Govt.Electric Factory,Mysore Road	Furnished separately (Vide list attached)															
7.	Messrs.P.M.Mudharai Mudaliar & Sons,Iron Foundry,Cottonpet.	Particulars not received.															
8.	Messrs.Eswara Iron Foundry near City Railway Station.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.	Messrs.Khoday Engineering Works. Near City Railway Station.	5	-	1	-	-	1	2	-	-	-	-	-	-	-	2	-
10.	Messrs.~~GRR~~ & Emm. Textile Engineering Cottonpet,B.City	4	1 Tunet	2	-	-	-	2	1	-	-	-	-	3	-	1	-

Statement No I
(Duplicate)

Steam Presses	Heat Treatment Furnaces, Electric, Gas, Oil fired	Forging Machines	Foundry Machines	Saw Mill Machines	Key seating Machines	Automatics	Screwing Machines, Bolts & pipes	Blowers	Compressors	Bar Reeling Machines	Miscellaneous
17	18	19	20	21	22	23	24	25	26	27	28
-	-	-	-	1	-	-	1	2	2	-	
2	1 (annealing furnace for cast Iron articles not in commission)	-	1 Hand moulding Machine	1 Circular saw			1	3	1	-	
-	1	-	-	-	-	-	-	1	-	-	
-	1 6tons casting Capacity	-	-	-	-	-	-	1	-	-	
-	-	-	-	-	-	-	-	-	-	-	-
	2 Furnace to meet & 18 Tons.	-	-	-	-	-	-	2	-	-	
	4	-	-	-	-	-	-	-	-	-	

Sl. No.	Name and address of Factory possessing Machine Tools	Lathes, sliding, surfacing and screw cutting.	Lathes, capstain, turret, &c.	Shaping Machines	Vertical boring & Turning Mill	Horizontal Boring and turning "	Planing machines including open side	Drilling machines other than radial	Radial Drilling machines	Vertical Milling Machines	Horizontal Milling Machines	Grinding machines, cylindrical multipurpose and centreless	Surface grinders	Tool & Cutter Grinders	Slotting Machines	Broaching Machines	Power Presses
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
11.	Sri Krishna Engineering Works. B'lore	Particulars not received.															
12.	The Mysore Metal Industries, Ltd Magadi Road.	-	-	-	-	do.	-	4	3	-	1						
13.	The Mysore Glass & Enamel Works Ltd., Yelhanka.					do.											
14.	Jubilee Saw Mills, Cotton Pet, Bangalore City	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15.	Annapurna Cooker Co Basavangudi.	4	-	-	-	-	-	2	-	-	-	-	-	-	-	-	
16.	Mr. Sattarkhan's Workshop, Narasinha-Raja Road.																
17.	Normal & Training Institute, & Workshop, Kolar	2	-	-	-	-	1	2	-	-	-	1	1	-	1	-	
18.	John Taylor & Sons Gold Mining Co. Ltd																
19.	The Mysore Sugar Co Ltd., Mandya.	-	4 Lathes 1(24" all geared lathe 1(11" do.) 1(9" do) 1(6" do)	1 14" stroke			1	-	2 (One 4" & 2 other 3" long arm)	-	-	-	-	-	-	-	
20.	The Mysore Iron & Steel Works.	Particulars separately furnished. (Vide Statement															
21.	B.M. Engineering Works, Brass & Iron Founders, Chikmagalur	5	-	-	-	-	-	2	-	-	-	-	-	-	2	-	
22.	Sri Amuteswara Saw & Rice Mills, Tarikere.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23.	Methodist Mission Workshop and Industrial School Tumkur.	3 wood turning lathes	-	One spindle moulding-Machine	-	-	1	-	-	-	-	1	-	-	-	-	

17	18	19	20	21	22	23	24	25	26	27	28
Stamp Presses	Heat Treatment Furnaces Electric, Gas, Oil fired	Forging Machines	Foundry Machines	Saw Mill Machines	Key seating Machines	Automatics	Boreing Machines, Bolts & pipes	Blowers	Compressors	Bar Reeling Machines	Miscell, neous
-	-	-	-	-	-	-	-	1	-	-	-
-	-	-	-	Saw Mills	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	2	-	-	-
-	-	-	-	3	-	-	-	-	-	-	- One Metal Bar Cutter One Metal Punch
-	-	-	-	-	-	-	-	-	-	-	2 (One Compound air Compressor Belt driven Air Cylinders and 1 single Cylinder air compounder)
-	1	2 Metal melting Furnace & Oxy--Acetylene Welding plant)	-	-	-	-	1	1	1	-	
-	-	-	-	1 2 Frames & One Bench	-	-	-	-	-	-	
-	-	-	-	5 One Horizontal Log Sawing --- Machine One B and Saw One Cir. Saw One Cross Cutting saw. One Fret Saw with boring attachment							One Chain mertising machine and One Gulleting machine

Sl. No.	Name & address of Factory possessing Machine tools	Lathes, sliding, surfacing and screw cutting.	Lathes, capstain, turret, etc.	Shaping Machine	Vertical Boring & Turning Mills	Horizontal Boring & Turning Mills	Planing Machines including open sid	Drilling machines other than radial	Radial Drilling machine	Vertical Milling Machine	Horizontal Milling Machine	Grinding Machines, cylindrical multipurpose and centreless	Surface grinders	Tool & Cutter grinders	Sloting Machine	Broaching Machines	Power Presses
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
24.	Sri Basaveswara Saw Mills, Tarikere	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25.	Sri Chamarajendra Technical Institute, Mysore	7 (5not in good work -ing order)	-	1 of 10" stroke	-	-	-	2 (Not in good work -ing order)	-	-	-	1 tool grinder	-	-	-	-	-
26.	Government Saw Mills, Shimoga	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27.	The Sarvamanya Saw Mills & Wood Works, Mysore South	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.	Siddalingeswara Swamy Saw Mills & Wood Works, Mysore	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29.	The District Industrial Workshop Shimoga	2	-	1	-	-	-	1	1	-	-	-	-	1	-	-	-
30.	M/s. John Taylor & Sons, Mining Co., K.G.F.	Details not yet received															
31.	Mysore Railway Workshop	Details not yet received															

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17	Heat Treatment Furnaces, Electric, Gas, Oil fired. 18	Forging Machines 19	Foundry Machines 20	Saw Mill Machines 21	Key seating Machines 22	Automatics 23	Screwing Machines, Bolts & Pipes 24	Blowers 25	Compressors 26	Bar reeling machines 27	Miscellaneous 28
	-	-	- 1verti- cal saw frame & 1 saw Bench	-	-	-	-	-	-	-	-
	-	-	- 3 (1 small circular saw Bench One Bard saw & One Horizon- tal power Sawing Machines)	-	-	-	-	-	-	-	-
	-	-	- Circular- saws 36" by 1½" Frame saws 5' 3¢" cross cutting hand saws	-	-	-	-	-	-	-	-
	-	-	- One vertical frame saw mill,one circular saw bench One Electric casing machine, One Electric Wood turning head stock.	-	-	-	-	-	-	-	-
	-	-	- 1 vertical saw Mill 2 Circular saw Mill	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	1	1	-	-	-

DIRECTOR

13. -do-	Smith Convertray & Co., Manchester, England	Length of bed - 30'. Distance between centres - 23'-6". Height of the centre to the bed - 26½" Motor H.P. 10.	
14. -do-	Bangalore Industrial Workshop	Length of bed - 42". Swing on saddle - 13". Motor H.P. 20	
15. Lathes, sliding, surfacing and Boring without screw-cutting.		Length of bed - 34". Swing without saddle - 27". Motor H.P. 10	Bought as scrap
16. -do-	D. New & Co., Makers Nottingham	Swing of the saddle - 28" length of bed 123". Length of bed 10' - 3"	Bought second hand, (Heryaslow work)
17. -do-	John Lang & Sons, Ltd. Johnstone	Length of bed 66". Swing on saddle 39". Distance between centres 41".	Bought second hand Bombay
18. Shaping Macines	The Rakelly Co., Xenia O U.S.A.	Stroke - 0" to 20". Bed travel 24". Motor H.P. 10	Bought second hand
19. Shaping Machine	Hercules Macline Tools, England	Stroke - 14". Maximum Stroke -2" Minimum Motor H.P. 10.	Medium work
20. -do-	Niles Bement works Philedelphia	Stroke - 22" . Maximum. Storke 2" minimum Motor H.P. 10	Small size work only
21. Verticle Boring and Turning Mill	Webster & Bement Co. Ltd., Coventry, England	Stroke - 24". Cross rail travel 26" & 18" Motor H.P. 10	Secondhand, Bombay
22. Horizontal Boring and Turning Mills	D. & J. Tullis, Ltd. Clyde Band	Length of bed - 5'. Width - 3' Motor H.P. 5	Secondhand Rough Drilling
23. -do-	William Muir & Co., Ltd., Manchester, England	Length of bed 63". Distance between swindle centre and cross table - 40". Motor H.P. 5	Second hand Slow Work
24. Planing Machines.	The Liberty Tool Machine Co., Hamilton	Length of bed - 10'-9" and width -20". Motor H.P.5.	Requires complete Overhaul (small work)
25. Planing Machine with open side	White Machine Tool Co. Ltd. Halifox, England	Length of bed - 17'-6". Width 3' 10". Motor H.P. 25	Open sided. Heavy work.
26. Drilling Machines.	Carona, England	Capcaity 1/32" to 1¼". Table dia:18". Motor H.P. 5	Second hand Rough work
27. Drilling Machines	Fairbanks Co., U.S.A.	Capacity - 1/32" to 1¼". Table dia:18" Motor H.P. 5	Not fit for accurate work

Statement No. II (enclosure)

THE MYSORE IRON AND STEEL WORKS

DETAILS OF MACHINERY IN THE MACHINE SHOP OF THE MYSORE IRON AND STEEL WORKS: BHADRAVATHI

Sl.No.	Type of Machine	Manufacturers	Brief Description	Remarks
1.	Lathes, Sliding, Surfacing & screw cutting	Donham, England	Distance between centres - 96" Length of bed - 105" Medium work. Motor H.P. 5. Height of the Centre to the bed -10/1/2".	Ordinary work
2.	-do-	Clark's Machine tool Company, Albion Works E ngland	Length of bed - 54". Distance between centres - 44". Motor H.P.1. Height of the centre to the bed - 6".	Small lathe
3.				
4.	-do-	Clarks Machine tool Company, Albion Works England	Length of bed - 138" Swing on saddle - 27" Distance between centres - 10' - 8". Motor H.P. 5	
5.	-do-	Monarch Machine, Company, U.S.A.	Length of bed - 58". Swing on saddle - 11". Distance between centres - 49"	Medium lathe
6.	-do-	Dean Smith Grace Company, England	Length of bed - 99". Swing on saddle - 10½" Distance between centres 43". Motor H.P.5	Bought second-hand
7.	-do-	The Hendey Manufacturing Co., Torrington, U.S.A.	Length of bed 92". Swing on saddle 9". Distance between centres 71". Motor H.P.5	Small work
8.	-do-	Kranse Company, Berlin	Length of Bed - 54". Swing on saddle 6½" Distance between centres - 40". Motor H.P.1.2	Small lathe
9.	-do-	The Birmingham Foundry & Co., U.S.A.	Length of bed - 108". Swing on saddle -15" Distance between centres -41". Motor H.P.7.5	Bought second-hand Bombay
10.	-do-	The Rahu Larmon Co., Cincinati, U.S.A.	Length of bed - 48". Swing on saddle 9". Distance between centres 68". Motor H.P.10	For general use
11.	-do-	Wardhaggas & Smith Keighley.	Twin centres. Heavy duty engine lathe. Height of centres to the bed - 16½" & 30½". Motor H.P. 10. Distance between centres - 15'½	Heavy work
12.	-do-	Betters - Bridlegord Rochester, N.Y. U.S.A.	Length of bed - 16'-6". Distance between centres - 13' 8½". Height of the centre to the bed 18". Motor H.P. 25.	Gears require replacement.

40.	Bar & Plate Rolling Machine	Graig & Donald, Ltd. Johnstone. Scotland	Capacity 9'-5/8". Plate Motor H.P. 15.	Requires Heavy repairs

Bangalore, dated 25th January 1941.

NRM:3/-

N. V. Siddalingappa

Director of Industries & Commerce in Mysore.

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Sl.No.	Type of Machine	Manufacture	Brief Description	Remarks
28.	Drilling Machine	Fairbanks Co., U.S.A.	Capacity - 1/32" to 1⅝" Table Dia: 18". Motor H.P. 3	Small. Not accurate
29.	Radial Drilling Machine	Shoppard Hill & Co., Leeds	Capacity Maximum 3". Minimum ¢" Motor H.P. 5.	Second hand. Very rough work
30.	-do-	Boruk and Comens, Anvers.	Capacity - 1/4" to 3". Motor H.P. 7.5	General Work
31.	Horizontal Milling Machines	Robson Universal Miller 2 A	Bed travel 18". Crossvice. Bed Travel 24". Motor H.P. 5	Second hand
32.	-do-	Le Blond No. 2 Heavy Duty Miller. U.S.A.	Length of Bed travel 18". Motor H.P. 5.	For work up to 18" only
33.	Slotting Machines	The Dean Smith & Grace Tool Makers, Keighley, Yorks, England.	Max: Stroke 10". Table dia: 41" Motor H.P. 10	Second hand Rough Work
34.	-do-	-	Stroke. Table dia: 31" Motor H.P. 10	-do-
35.	Power-Press	Bomax Knapp Niles Bement Pond Co., Hamilton, Ohio.	Capacity Tons on 9" ram 200 tons Motor H.P. 3	General use.
36.	Stand Press	Atlas Compound Hand Press Co., Kalazoomien U.S.A.		Second hand, for small work only.
37.	Screwing Machines Bolts & Pipes	William Tools Co. Eriepansa	Max: Capacity 4". Minimum ½" Motor H.P. 10.	Practically useless.
38.	Compressors	Ingersoll Rand & Co. New York	Air 10 x 8. Motor H.P. 25	
39	-do-	Consolidated Pneumatic Tool Company	Motor H.P. 30	

GOVERNMENT ELECTRIC FACTORY

MACHINE DEPARTMENT

Sl. No.	Machine with General Specification.	Condition of machine.	In use or not	If used, is it fit for precision work.	If used, engaged fully with tight work, occasional or light work.	Value of machine Rs. As. p	Remarks.
1.	Shaping Machine No.1						
	"Turner Hoare & Co., Bombay with(3 H.P. Motor). Stroke 18". working bed 16" x 12" movement of the tool holder 6" vertically working bed movement 13" vertically and 16" horizantally.	In good working condition.	In use.	yes.	Tight work.		
2.	Shaping Machine No.2						
	"Toopex" Swedish make with 3 H.P. motor stroke length 24" working bed 23" x 13" Tool Holder slide 6" vertically bed movement 12" vertically 16" horizantally.	-do-	-do-	-do-	-do-		
3.	Shaping Machine No.3						
	"Paris" with 3 H.P. motor-stroke length 18" working bed 17¼" x 11½", Tool Holder Slides 4", vertically, working bed movement 20" vertically and 12" horizantally.	second-hand - requires slight repair.	-do-	rough work.	-do-		
4.	Big Planning Machine.						
	"Miller" with 15 H.P. motor and starter. Stroker length 13',working bed 16½ ft. x 3½ ft, double tool holders, movement 4 ft. horizantal and 3½ ft. vertical.	second-hand - working satis-	-do-	moderate work.	-do-		
5.	Slotting Machine: with 2 H.P. motor Ram stroke 5", horizantal movement of bed 16" transverse movement 16" and diameter 20"	-do-	-do-	-do-	-do-		

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GOVERNMENT ELECTRIC FACTORY

MACHINE DEPARTMENT

Sl. No.	Machine with General Specification.	Condition of machine.	In use or not	If used, is it fit for precision work.	If use, engaged fully with tight, occasional or light work.	Value of machine. Rs. As. p.	Remarks.
6.	Boring Machine. with 15 H.P. Motor and Starter. "Geo Richards & Co., Ltd.," Max diameter of facing 24", with special tools, the facing could be done up to 42", vertical, transverse of sliding head 18", size of the main table length 5 ft. breadth 3 ft. size of the detached turn table 3' x 3', longtitudinal traverse of table 43", transverse motion of table 4'.	second-hand light repairs effected - working satisfactorily.	In use.	moderate work.	light work.		
7.	Gear Hobbing Machine:- with 3 H.P. motor working bed dia.2 ft. cutter slide movement 12" vertically, transverse movement of the working bed 21" and longtitudinal movement of the cutter slide 4"	secondhand - working satisfactorily.	-do-	-do-	Tight work.		
8.	Horizantal Milling Machine with 3 H.P. motor, working bed 45" x 12", transverse movement of the bed 7½", horizantal movement of the bed 30" and vertical movement of the bed 18"	-do-	-do-	-do-	-do-		
9.	Vertical Milling Machine with 3 H.P. motor, working bed 40" x 12", transverse movement of the working bed 11" horizantal movement of the working bed 32", vertical movement of the working bed 14" sidevertical movement of the	secondhand - used only for facing, boring and drilling.	-do-	-do-	-do-		

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GOVERNMENT ELECTRIC FACTORY

MACHINE DEPARTMENT

1	2	3	4	5	6 Rs. As. p	Remarks.
10. Radial Drilling Machine:						
With 3 H.P. Motor. Working bed 20" x 20", Vertical movement of the spindle 10" and horizantal movement of the spindle slide 2 ft.	Purchased new working in good condition	In use	Accurate work	Tight work.		
11. Universal Grinding Machine:						
with 5 H.P. Motor. working bed 61" x 8", Horizontal movement 54". Transverse grinding stone slide moving 12"	Second-hand working satisfactorily.	-do-	Accurate.	Occasion.		
12. Lathe No.1 with 2 H.P. Motor:						
Working bed 42" x 10½", Swing radius 8", owing of the gap 13" and length between centres 31"	Most inaccurate. No change wheels are available. New bearings are required.	-do-	Rough work.	Tight work.		
13 Lathe No.2 with 3 H.P. Motor:						
Working bed 95" x 9½", Swing radius 7½" and between centres 77"	Secondhand. Requires slight alteration for accurate work.	-do-	-do-	-do-		
14. Lathe No.3 with 3 H.P. Motor: Working bed 56" x 14", Swing 9" radius and between centres 36"	Secondhand working satisfactorily.	-do-	Moderate and plain work - no facility for change wheels. No tail stock.	-do-		

GOVERNMENT ELECTRIC FACTORY

MACHINE DEPARTMENT.

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1	2	3	4	5	6 Rs. As. P	Remarks.
15. Lathe No.4 with 5 H.P. Motor:						
Working bed 72" x 12" Swing Radius 8", Between centres 58"(Metric system)	Secondhand working satisfactorily.	In use.	Satisfactory	Light work.		
16. Lathe No.5 with 2 H.P. Motor:						
Working bed, 84" x 15", Swing Radius 8", and between Centres 61"	-do-	-do-	Medium.	-do-		
17. Lathe No.6 with 2 H.P. Motor:						
Working bed 72" x 15", Swing 8" radius and between Centres 54"	-do-	-do-	-do-	-do-		
18. Lathe No.7 with 2 H.P. Motor:						
Working bed 83" x 15", Swing 8" radius and between Centres 63"	Second-hand No change wheels.	-do-	Rough work.	-do-		
19. Lathe No.8 with 2 H.P. Motor:						
Working bed 42" x 12", Swing Radius 7" and between Centres 28"	Purchased new. in good condition.	-do-	Tiny work in accurate.	-do-		
20. Lathe No.9 with 2 H.P. Motor:						
Working bed 72" x 15", Swing Radius 8", and between Centres 54"	Secondhand working satisfactorily.	-do-	Medium	-do-		

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GOVERNMENT ELECTRIC FACTORY

Machine Department

1	2	3	4	5	6 Rs. As. p	Remarks.
21. Lathe No.10 with 5 H.P. Motor:						
With geared head stock - Working bed 96" x 20". Swing 11" radius and between Centres 70"	Second-hand in good condition	In use.	Satisfactory	Tight work.		
22. Lathe No.11 with 5 H.P. Motor:						
Working bed 57" x 12", Swing 6¾" Radius and between Centres 36"	In good condition.	-do-	For accurate work.	-do-		
23. Lathe No.12 with 3 H.P.Motor:						
Working bed 96" x 15¾", Swing 10" radius and between Centres 74"	Secondhand in good condition	-do-	-do-	-do-		
24. Small Planning Machine, with 5 H.P. Motor:						
Stroke length 60", Working bed 72" x 21", Horizontal Movement of the tool holder 21" and Vertical movement 24"	Secondhand used for rough work.	-do-	In-accurate	-do-		
25. Pillar Drilling Machine with 2 H.P. Motor:						
Vertical movement of the spindle 7", Radius of the working bed 6 3/16", Vertical movement of bed 23" and the distance from the tangant of the Pillar to the Centre of the bed 10"	Secondhand only for very rough work.	In use for rough work	No	Occasional work		

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GOVERNMENT ELECTRIC FACTORY

MACHINE DEPARTMENT

1	2	3	4	5	6 Rs. As. P.	Remarks.
26. Table Vices: 4" Jaws ... 6 Ps. 5 " ... 2 " 7 " ... 1 Ps.	Working satisfactorily.	In Use	No	Tight work.		
27. Marking Table:(made in Germany) Size 12' x 6' x 2½'	Purchased new	No.	O.K.			
28. Marking Table:(G.E.F. make) Size 8½' x 3½' x 6" mounted on 3 Pillars, Height 3½'	Working satisfactorily.	in use		Tight work.		
29. Cupola, capacity 1 Ton - with centrifugal fan type blower run by 7 H.P. Motor.	Secondhand - Working satisfactorily.	-do-	"	-do-		
30. Two Cupolas under erection, capacity 1½ tons each, without blower and Motor.						

(Sd)

Bangalore,
Dated 30th November 1939

M.M)4
25-1-41.

Statement No III

Government Electric Factory
Forging Section.

No.	Specification.	Condition	in use or not	If used is it fit for precision work.	Tight work or occasional or light work	Value	Remarks.
1.	Greenwood & Batley Big Forging Machine	not satisfactory.	in use	Not for precision work	Tight work		Cannot be spared.
2.	do. Small " "						
3.	Threading Machine	Fair	do.	"	do.		
4.	Drilling Machine	Requires repair	not in use	"	--		
5.	Nuts Taping Machine	Fair	do.	"	--		Cannot be spared.
6.	Bolts Screwing Machine	Bad	in use	"	Light work		do.
7.	Big Friction Press	Good	in use	yes	very light work		do.
8.	Peter Piltington Patent Pneumated Power Hammer	fair	do.	Useful for rough work	Tight work		do.
9.	Punching & Shearing Machine (similar to one in C.I.W)	Good	not in use	Can be used for structural work	not used		
10.	Two pipe threading machine.	requires heavy repair	"	Not fit for precision work.	do.		

Bangalore Dated 25th January 1941.

M.V. Lidalinappa
Director of Industries
and Commerce.

L.R.3

Government Electric Factory
Instrument Section

No.	Machinery with General Specification.	Condition of Machine	in use or not	Whether fit for precision work.	Whether light occasional or tight work.	value of machine.	Remarks.
1.	Lathe 2' x 4" - No screw cutting attachment, provided with motor.	Good	in use	...	light work		Cannot be spared
			General service				
2.	Centrifugal Pump with a 3 H.P.Motor - can develop about 40 ft. head	This set is used for pumping water for the use of General Service.					
			Meter Section				
3.	Match Makers' Capstan Lathe with Motor	Good	in use	fit	tight work		No machine can be spared from this Section.
4.	Tapping Machine	slight attachments required	..	..	...		
5.	Pivot Burnishing Machine	Good	in use	fit	light work		
6.	Cutter Grinding Machine	"	"	"	"		
7.	Gear Hobbing Machine	"	"	"	"		
8.	Milling & Drilling Machine	"	"	"	"		
9.	High Speed Drilling Machine	"	"	"	"		
10.	Drilling Machine (Flott)	"	"	"	"		
11.	Drilling Machine (Tauco)	"	"	"	"		
12.	Bench Lathe 4" x 12"	average	"	Not fit	Tight work		
13.	do. 2" x 4"	"	"	"	"		

Bangalore dated 25th Jany.41
L.R.3

M. V. Liddalingappa
Director of Industries
and Commerce

Government Electric Factory
Tool Making Section.

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No.	Specification.	Condition	in use or not	If used, is it fit for precision work	Tight work or occasional or light work	Value	Remarks.
1.	**LATHES:**						
(a)	Swing 14" Bed 4ft	good	in use	Precision work	Tight work		No machine can be spared from this section.
(b)	15" 4ft	good	in use				
(c)	18" 4ft	good	in use				
(d)	15" 3½'	good	in use				
(e)	16" 4½'	good	in use				
(f)	9" 3"	Fair	in use	Small Rough work			
2.	Combined Filling and Sawing Machine (Thiels 16)	Good		Precision work	Light work		
3.	Vilt Pederson Heavy Duty Milling Machine	"	do.	do.	Tight work		
4.	Torpan Shaping Machine	Fair	do.	Rough work	do.		
5.	Jhones and Shipman 1" Drilling Machine	Good	do.	Precision work	do.		
6.	Aurbach Drilling Machine	Fair	do.	Alright for General work.	do.		
7.	Portable Flexable Grinder with Motor attachment.	Good	do.		do.		
8.	Overhead Flexable Drive.	Good	do.	Satisfactory working	do.		
9.	50 Ton Press.	Good	do.		Trial purposes (Occasional) Tight Work.		
10.	Pekel Engraving Machine, Cutter, Grinders.	Good	do.	Precision work			
11.	Pekel Tool Milling Machine, Universal Type.	Good	do.	do.			
12.	Screw Press.	Fair	do.	Trial purposes only not very accurate.	Light work.		

Bangalore Dated 28th January 1941.

M. V. Lidadaliyappa
Director of Industries
and Commerce

4 15

Government Electric Factory.
Carpentry Section

No.	Name with General Specification.	Condition of Machine	in use or not	Whether fit for precision work.	whether tight work or occasional work or light work.	Value	Remarks.
1.	Drilling Machine "Tauco" 0.6 BHP.Brown Boveri Motor	Good	in use	fit	light		
2.	Drilling Machine, Walker, Turner Co. with G.L.Motor	"	"	"	"		
3.	Fretsaw Machine 'Dlta' with ½ H.P.Motor	"	"	"	"		
4.	Brandsaw Machine 'Delta' with Motor	"	"	"	"		
5.	Wood turning Lathes, two in number with Motors.	"	"	"	Tight		1 to 8 cannot be spared
6.	Circular Saw Machine made at G.E.F. with Motor.	"	"	"	Light		
7.	Planning Machine 6" capacity with 'Delta' Motor	"	"	"	"		
8.	Circular Saw Machine 'Delta' with Motor	"	"	"	"		
9.	Electric Motor, Crompton 1/3 H.P. (Removed from Grinding Machine)	"	"				

Bangalore Dated the 25th January 1941.

M. V. Siddalingappa
Director of Industries
and Commerce

L.R.3

Government Electric Factory
Screwing Making Section

P 16

No.	Name with General Specification	Condition of Machine	in use or not	Whether fit for precision work	whether tight work or occasional or light work.	Value	Remarks.
1.	Drilling Machine, 2 H.P. Motor, 1¼" Capacity	not very accurate	in use	Not fit for precision work	Engaged for structural work lightly.		
2.	Small Grinding Machine 12" wheel. 1 H.P.Motor (made in the workshop)	Good	used	...	Tight work		
3.	Big Grinding Machine 16" grinding Stone with Motor (locally Built)	"	"	...	do.		Cannot be spared.
4.	Drilling Machine ½" size with motor, motor provided.	"	in use	fit for work	light work		
5.	Spinning Lathe: 6' x 18" - no motor / attachment	out of order	"	...	...		requires repair
6.	Capstan Lathe 6" x 4'	Good	used	Not fit for precision work	Tight work		
7.	Southbend Lathe. 3' x ~~12~~ 8"	Good	"	Fit for precision work	do.		
8.	Lathe 6' x 12"	average	"	not fit	for all minor works		
9.	Lathe: 5' x 12"	Only used for surfacing: No screw cutting attachment.					Change wheels are not available
10.	Electric Motors. 2 in number. A.E.G. 1 H.P.Each	These are in good condition but not used.					

Bangalore Dated 25th January 1941.

M. V. Siddalingappa
Director of Industries
and Commerce

L.R.3

Government Electric Factory
Metal Pressing Section

No.	Specification.	Condition	in use or not	If used, is it fit for precision work.	Tight work or occasional or light work	Value	Remarks.
1.	Esaky Press.	Good	in use	Yes	Tight work		Cannot be spared
2.	Tauco Table Drilling Machine	"	"	"	Light work		do.
3.	Sheet Cutting Machine.	"	"	"	Tight Work		do.
4.	Hand Screw Presses.	7-Good Order 3-Gun Metal Bushings to be replaced 2-Base Cracked	in use not in use	not precision work	Tight work		

Bangalore Dated the 25th January 1941.

M.V. Lingalingappa
Director of Industries
and Commerce

L.R.3

Government Electric Factory
Meter Section (Contd.)

No.	Machinery with General Specification.	Condition of Machine	In use or not	Whether fit for precision work	Whether light occasional or tight work.	Value of machine	Remarks.
12.	Bench Lathe - South Bend - 4' x 9'	Good	in use	fit	tight work		No machine can be spared from this section.
13.	Lathe 'Rivet'. 2½' x 9"	"	"	"	do.		
14.	Lathe 3½' x 12" (screw Cutting Etc)	"	"	"	do.		
15.	Capstan Lathe	"	"	"	do.		
16.	Hand Lathe	"	not in use				
17.	Grinding Machine (locally made) for tool grinding etc.	"	used	fit			
18.	Screw Press	Average	in use	not fit	light		
19.	Match Makers' Milling Machine	requires repairs.	not in use				
20.	do. Hand Dividing Machine	"	"				

Bangalore Dated 25th January 1941

M. V. Siddalingappa
Director of Industries
and Commerce

L.R.3

Supplemental list showing the names and addresses of factories possessing machine tools.

Name and address of Factory.	Particulars of machine tools in their possession.
1. The Mysore Glass & Enamel Works, Ltd., near Yeswantpur Railway Station, Bangalore.	(1) One Lathe, sliding, surfacing and screw cutting. 5' size. 8½" below centre. Gap 6". (2) One Lathe -do- 4' size, 8½" below centre with 7" gap. (3) One Lathe -do- 3', 5½" below centre, 6" slide surface. (4) One Shaping machine 12" stroke, vertical 2' slide, horizontal 1¾' slide. (5) One Power Fair Blower 12" dia. 2" delivery. (6) One Hacksaw machine 12" size. (7) One Power Drilling machine 1¾" dia. hole capacity 7" deep. Distance from centre to column 10".
2. Messrs. Madurai Mudaliar and Sons, Iron Founders, Bangalore City.	(1) 5 Lathes, sliding, surfacing, screw-cutting. (2) One Lathe plain having fitting for taper forming. (3) One Lathe plain. (4) One twelve-inch stroke double head shaping machine. (5) One ten-inch vertical boring and shaft keyway cutting machine. (6) One Planing machine 6'x 2½'x 2½' with two heads at top and 2 at sides. (7) One universal No.4 Horizontal Milling machine combined with 3 H.P. motor. (8) Two small too grinders. (9) One small Universal cutter grinder combined with motor. (10) One Slotting machine of 11" stroke. (11) One Iron saw to cut up to 4". (12) One handscrew machine up to 1". (13) One 4" blower for Smithy work. (14) One 8" Roots blower combined with 10 h.p. motor for cupola.

Name and address of Factory.	Particulars of machine tools in their possession.
	(15) One three-inch slide radial drilling machine 4½' radius.
	(16) One Pillar vertical drilling machine
	(17) One " light type up to 3/8".
	(18) One plain sheet bening machine.
	(19) One corrugated sheet being machine.
	(20) One gas welding plant.
3. The Government Power & Light Workshop, Mysore.	(1) 2 Lathes sliding, surface and screw cutting.
	(2) 1 planing machine.
	(3) 3 Radial Drilling machines.
	(4) 1 hand drilling machine.
	(5) 1 screwing machine.
	(6) 1 Blower - centrifugal.
	(7) 1 Forge Portable.
	(8) 1 Punching, Angle Iron cutting and shearing machine.
4. Messrs. Sadasiva Saw Mills and Wood Works, Bamboo Bazaar, Mysore.	(1) 1 Frame saw.
	(2) 1 vertical saw.
	(3) 1 bench.
	(4) 1 Emery Grinder.
5. The Coorg Industries and Saw Mills, Mysore South.	(1) 2 vertical sawing machines.
	(2) 2 saw benches.
	(3) 1 grinding machine.
	(4) 1 planing machine.
	(5) 1 curve cutting machine.
6. The Mysore Engineering Works, Iron and Brass Founders, Hassan.	(1) 6 Lathes, sliding, surfacing and screw-cutting. (2) 1 shaping machine. (3) 1 ordinary lathe. (4) 1 planing machine. (5) 3 ordinary drilling machines. (6) 1 horizontal milling machine. (7) 1 grinding machine. (8) 1 punching and shearing machine.

Name and address of Factory.	Particulars of machine tools in their possession.
7. Sri Satyanarayana Engineering Works, Hassan.	(1) 2 screw cutting lathes. (2) 1 Drilling machine (other than radial). (3) 1 Emery grinder. (4) 1 (H.P.) Forging machine. (5) 1 Fan.
8. Mr. Rajenhalli Hanumantha Rao, Ginning Factory, Banavar.	(1) 1 Drilling machine (other than radial). (2) 1 Forging machine (H.P.)
9. The Government Implements Factory, Hassan.	(1) 1 screw cutting lathe. (2) 1 (H.P.) drilling machine (other than radial). (3) 3 screw presses (H.P.) (4) 1 Gig Saw. (5) 1 wood turning lathe. (6) 1 circular saw. (7) 3 Pneumatic hammers. (8) 3 Machine hammers. (9) 2 blowers. (10) 1 sheet rolling machine (H.P.) (11) 4 polishing heads (12) 1 combined punching. (13) 2 punching machines. (14) 1 Electro-plating set.
10. Messrs. Abdul Gaffor & Sons, Channarayapatna.	(1) 1 sliding machine lathe. (2) 2 crew-cutting lathes. (3) 2 shafting machines. (4) 1 planing machine. (5) 1 Forging machine (worked by bellow).
11. Messrs. Appaji Rao and grandson, Furniture Manufacturers, Shimoga.	(1) 1 saw bench (2) 1 saw grinding machine. (3) 1 wood planing machine.

p.t.o.

Name and address of the factory.	Particulars of machine tools in their possession.
12. Dr. J. Manickyan Pillai Workshop, Shimoga.	(1) 3 Lathes, sliding, surfacing and screw cutting. (2) 1 planing machine including open slide. (3) 1 drilling machine. (4) 1 surface grinder. (5) 1 forging machine.
13. Doss Mechanical Industrial Workshop, Shimoga.	(1) 2 Lathes 16' x 2½" and 6' x 6". (2) 2 Drilling machines. (3) 1 Tool and cutter grinder. (4) 3 saw mill machines. (5) 2 Blowers. (6) 2 Automatics. (7) 1 Cutting and Punching machine.
14. The Kolar Gold Mining Company.	Detailed lists of machine tools attached hereto.

Original Signed N.V. Siddalingappa

DIRECTOR OF INDUSTRIES AND COMMERCE.

ks)4.

GOVERNMENT ELECTRIC FACTORY.

List of machinery in the Electro-plating Section.

Sl.No.	Name of machinery.	Quantity.	Remarks.
1.	Generator. H.P.25.V.220	1 piece.	
2.	Barrels.	2 pieces.	
3.	Polishing lathes.	3 pieces.	

Sd/- T.G. Ramaswami.

for General Manager,
Government Electric Factory.

Bangalore,
22nd Jany.1941.

COPY

N. V. Siddalingappa

Director.

GOVERNMENT ELECTRIC FACTORY.

List of machinery in production Control and Packing Sections.

Sl.No.	Particulars.	Quantity.	Remarks.
1.	Card board pinning machine	One	
2.	Heavy duty bending press	One	
3.	Hand press (Screw press)	One	
4.	2 Cwt. Avery Balance in Purchase Department.	One	

Bangalore,
22nd Jany.1941.

Sd/- T.G. Ramaswami,
for General Manager,
Government Electric Factory.

"COPY"

M. V. Siddalingappa
Director.

GOVERNMENT ELECTRIC FACTORY.

List of Machinery in the Bakelite Section.

Sl.No.	Name.	Quantity	Remarks
1.	35 tons capacity Moulding press.	4	
2.	50 tons capacity Moulding press.	7	
3.	15 tons capacity Moulding press.	5	
4.	75 tons capacity Moulding press.	2	
5.	Screw hand press.	2	
6.	Device for taking out the bend of articles.	3	
7.	1 cwt. Avery Balance.	1	
8.	Tabletting machine.	1	
9.	Grinding machine.	3	
10.	Polishing machine.	4	
11.	Injection mk moulding machine	1	
12.	Tapping device.	2	
13.	Tauco Drilling machine.	1	

Sd/- T.G. Ramaswami,
for General Manager,
Government Electric Factory.

Bangalore,
22-1-1941.

COPY

M.V. Siddaliyappa
Director of
Industries & Commerce.

ks)3.

GOVERNMENT ELECTRIC FACTORY.

List of Machinery in Electric Transformer Section.

Sl.No.	Name of Machinery.	Quantity.	Remarks.
1.	Frequency changer Set.	1	
2.	Testing Transformer.	1	
3.	'Micafil' L.T. Winding Machine.	2	Without Tensioning device.
4.	'Chapman' Winding Machine for H.T. Coils of 3 phase Transformers.	2	
5.	Small Coil Winding Machine (automatic)	1	
6.	M.A.X,E. Coil Winding Machines (big)	3	
7.	-do- (small)	1	
8.	Coil lowering press.	2	
9.	Impregnation Chambers(small)	2	One is under repair
10.	-do- (big, Autoclave)	1	
11.	Hack Saw Machine 'Rapidor'	1	
12.	Drilling Machine.	1	
13.	Grinding Machine.	2	
14.	Portable Grinding Machine.	2	
15.	Avery Weighing Machine. 2 cwt.	1	
16.	Arc Welding Sets.	2	One portable & the other not erected.
17.	Scroll Saw Machine.	1	
18.	Spray Painting Machine.	1	
19.	Small Drilling Machine.	1	
20.	Transil Oil Filter Press.	1	
21.	Tube making Machine.	1	
22.	Round coils taping Machine.	1	
23.	Pipe Bending Machine.	1	
24.	Marking table.	1	
25.	Machine for winding & straightening armature coils.	1	
26.	Machine process heated and cooled with accessories.	1	
27.	'Matrindale' spring winding machine.	1	
28.	Automatic Numbering Machine.	1	

Sd/- T.G. Ramaswami,
for General Manager, Govt. Electric Factory

"COPY" N.V. Siddalingappa
Director

		3'-0" between centres				
12.	Do.	6" centres 4'-0" between centres	—	—	Poor	Solid Spindle
13.	Do.	7" centres 3' 6" between centres	—	—	Poor	Do
14.	Do.	6" centres 8'0" between centres	Alfred Herbert	1938	Good	Hollow spindle, 2" hole
15.	Do.	7" centres 3'-0" between centres	Darling & Sellers	—	Good	Hollow spindle, 2½" Hole Reconditioned.
16.	Do.	Do.	Do.	—	Good	Do.
16	Do.	Do.	Do.	—	Good	Do.
17.	Universal Miller	18" Lingitudinal feed, 10" Transverse feed, 18⅛" Vertifal feed	Parkson	1934	Good	Complete with Universal Vertical Attachment
18.	Do.	28" longitudinal feed, 8½" Traverse feed 19" vertifal feed	Brown & Sharpe	1938	Good	
19.	Planer	6' Stroke, 30" between coloumns, 28" under Cross Rails	—	—	Poor	
20.	H.S.Planer	8' stroke, 42" between coloumns, 48" under cross Rails	Bateman	1938	Good	Unit Motor Drive.

NUNDYDROOG MINES LIMITED

MACHINE TOOLS IN W O R K S H O P S

FITTING SHOP

Index No.	Type of Machine	Capacity, i.e. maximum sizes of job handled	Maker's Name	Date of supply	Condition	Remarks. e.g. state whether lathes are hollow spindle, give motions of milling machines, etc.
1	2	3	4	5	6	7
1.	Centre Lathe	12" centres 8'-0" between centres	Dean, Smith & Grace	1911	Good	Solid Spindle, All geared Head, Unit Motor drive. Re-conditioned.
2.	Do	Do	Do	1911	Fair	Do
3.	Do.	13½" centres 8'-6" between centres	Binns & Berry	1938	Good	Hollow Spindle, 4" Hole, All geared Head, Unit Motor Drive.
4.	Do.	16½" centres 18' between centres	Broadbent	1935	"	Solid Spindle, Unit Motor drive, All Geared Head, Swings 14' in Gap.
5.	Do	13" centres 18' between centres	—	—	Poor	Cone Driven, Solid Spindle Being re-conditioned.
6.	Do.	7" centres 3' between centres	—	—	Fair	Do
7.	Do.	13" centres 15' between centres	—	—	Poor	Do
8.	Do	11½" centres 16' between centres	—	—	Poor	Do
9.	Do.	8½" centres 7' between centres	Binns & Berry	—	Fair	Cone Driven, Hollow Spindle 3" Hole.
10.	Do	7" centres 4' between centres	Southbend	—	Fair	Hollow spindle 1" hole
11.	Do.	6½" centres				

36	do.	8½" centres 4'-0" between centres	Jones Burton	--	Fair	All Geared Head, Hollow Spindle, 3" Hole.
37	Upright Drilling Machine.	--	do	--	Fair	
38	Power Hacksaw	22" Blade	--	--	--	
39	Centering Machine	--	--	--	Good	

BLACKSMITH SHOP.

40-41	Upright Pillar Drilling Machines	Drilling upto 2" dia.	--	--	Poor	Circular. Belt Driven.
42	Steam Hammer	20 cwt.-Max.Drop 3'-0"	B.& S.Massey.	--	Fair	Overhung type.
43	do.	7 cwt.-Max.Drop 2'-3"	do.	--	Fair	do.
44	Shearing & Punching Machine.	Shearing upto ¾" plate Punching 7/8" Holes in ¾" plates.	--	--	Poor	Belt Driven.
45	Plate Bending Roller	Roll Width 7ft.	--	--	Fair	do.
46	Bolt Hot Forging Machine.	3/8" to 7/8" bolts.	Greenwood & Batley, Ltd.	--	Fair	
47	"Sirocco" Blower		Davidson & Co.	--	Fair	Belt Driven. No.6 Type.
48	Butt Welding Machine	Max.Dia.Welded 1½	A.E.G.	--	Good	
49	Plastic Arc Welder		Wilson	--	Good	Motor Driven.D.C.Welding Stationary.
50	A.C.Welding Plant		--	--	Good	With Transformer. Alloy Welding Process.
51	Welding Plants.		..	--	Good	

1	2	3	4	5	6	7
21	Slotting Machine.	9½" Stroke 24" dia.Table	Bolling & Lowe	--	Poor	
22	Shaping Machine	14" Stroke, Travel 24"	Alfred Herbert.	--	Fair	Travelling Head Type.
23	do.	7" Stroke, 14" Travel	--	--	Fair	do.
23 A	do.	6" Stroke, 20" Travel	--	--	Poor	do.
24	Horizontal Universal Boring Machine.	Maximum Facing 60" dia.	Alfred Herbert.	--	Good	Unit Motor Drive.
25	Universal Radial Drilling Machine	--	Asquith	1934	Good	Portable, Unit Motor Drive with Trailing Cables.
26	Radial Drilling Machine.	--	Sandycroft	--	Poor	
27	do.	--	do.	--	Poor	
28	Sensitive Drilling Machine.	--	--			
29	Screwing Machine	5/8" Bolt to 4" Pipe	Landis	--	Good	
30	do.	3/8" Bolt to 1" Pipe	do	1938	Good	
30A	do.	3/8" Bolt to 4" Pipe	Alfred Herbert	--	Fair	
31	Universal Cutter & Tool Grinder No.4	--	do.	1938	Good	Complete with Universal Attachment for Cylindrical Surface and Internal Grinding.
31 A	Universal Grinder	6" centres 18" between centres.	Churchill	1934	Good	Internal Grinding Attachments.
32	Tool Grinder	18" Wheels.	--	--	--	
33	Power Hacksaw	24" Blade	--	--	--	
34	Centre Lathe	11" centres 6'-0" between centres.	--	--	Poor	Solid Spindle, Cone Driven.
35	do.	7" centres 4'-0" between centres.	Redman.	--	Poor	Hollow spindle, 1⅛" Hole, Cone Driven.

	Sharpener		Do	-			
78	Log Frame Saw Sharpender	(grinder 12"x5/8" x 1" bore	Do	-	Fair	Belt Driven	
79	Circular Saw Bench	36" dia Saw	-	-	Fair	Do	72"x36"x36"
80	Do	24" dia. saw	Robinson & Sons	-	Fair	Do	60"x30"x30"
81	Do	24" dia. saw	-	-	Fair	Do	54"x27"x27"
82	Do	36" dia. saw	-	-	Fair	Do	70"x36"x36"
83.	Cir. saw sharpender	12"x3/8"x1" Bore Grinder	T. Sagar & Co.	-	Fair	Belt Driven	
84.	Wood Lathe		F. Berry & Sons	-	Poor	Do	

NRIN:4
6-2-41

"COPY"

W. V. Fitzhalinspapp
Director of Industries & commerce.

1	2	3	4	5	6	7
			MOULDING SHOP			
53	"Sirocco" Fan		Davidson & Co.	-	Good	Belt Driven No. 5 Type
			DRILL SHARPENING SHOP			
54	Salt Bath F urnace	16"L. x 10" W. 12" D.	--	-	Good	220 Volts
55-56	Tip Hardening F urnaces (2)	24 Drill type	--	-	Good	Oil Fired
57-61	Oil Furnaces (5)		--	-	Good	
62-63	Hot Millers (2)		--	-	Good	
64-65	Drill Sharpenders (2)		Climax	-	Good	
66-67	Twin Grip (2)		Holman	-	Good	
68-70	D.Sharpeners Large		Ingersoll-Rand	-	Good	
71	Do small		Do.	-	Poor	
			CARPENTER SHOP			
72-73	Log Frame Saws (2)	33' feed. Hold 45" logs	Robinson & Sons	-	Good	Belt Driven 6'-7" x 6" Saws
74	Planer	5-3/4" cutter blocks 3-15/16 dia. feed rolls	Thomas White & Sons	-	Good	Belt Driven 24" x 1 1/2" H.S. Steel cutters
75	Planer	3 1/4" blocks 3" feed Rolls	Robinsons & Sons	-	Fair	Belt Driven - 18"x3 1/2" cutters
76	Band saw	12" x 3/4" saw	Do	-	Fair	Belt Driven-Pair of 30" wheels

L. 13	Turret Lathe	20" dia. x 8 feet	Herbert Ltd.	Unknown	3⅝" Hollow spindle.
M. 1	Radial Drill	Table 5 ft. x 3ft.	Shepherd & Hill.	"	Drill up to 2" dia.
M. 2	Vertical Pillar Drill	Table 2'-4" dia.	Unknown	"	Drill up to 1.½" dia.
M. 3	Small Drill		"	"	Used for pin drilling.
M. 4	Planing Machine	Travel 4 feet	"	"	2'6" wide x 2'3" high.
M. 5	Shaping Machine.	14" Stroke.	Sandycroft.	"	
M. 6	Slotting "	18" Stroke.	Unknown	"	Face or slot 3'6" x 3'2" x 18".
M. 7	Screw Cutting Machine	Tangential.	Kendall and Gent.	12-12-31	Screw bolts to 1.½" and pipes to 3".
M. 8	Milling Machine	Type 3 T Universal Miller.	J. Parkinson & Son, Shipley.	25- 6-34	Greatest distance centre of spindle to top of table 20" Longitudinal feed 36" crossfeed 12".

M. V. Siddalingappa
Director of Industries & Commerce.

M.M)4
6-2-41.

THE CHAMPION REEF GOLD MINES OF INDIA, LIMITED.

(Incorporated in England).
Liability of Members Limited.

DIRECTORATE OF ORDNANCE FACTORIES.

SURVEY REPORT No. PARTICULARS OF PLANT.

Note: Appendix II to Form Mob A. In the case of large works a separate page of this appendix to be used for each type of machine.

Index No.	Type of Machine.	Capacity i.e. maximum size of job handled.	Maker's name	Date of Supply	Condition vide Subhead 14	Remarks e.g. state whether lathes are hollow spindle, give motions of milling machines, etc.,
L. 1	Screw Cutting Lathe	23" dia. x 18 feet In gap 10 ft.dia.x 2'-6"	Unknown	Unknown		
L. 2	Screw Cutting Lathe	13" dia. x 20 feet In gap 3 ft. dia.x 18"	"	"		
L. 3	Surfacing Lathe	18" dia. x 14 feet In gap 3' -8" x 12"	"	"		
L. 4	Screw Cutting Lathe	17" dia. x 13 feet In gap 2'-9" x 12"	"	"		
L. 5	Screw Cutting Lathe	15" dia. x 6 feet In gap 2'-10" x 12"	"	"		
L. 7	Screw Cutting Lathe	14" dia. x 3 feet	"	"		½" Hollow spindle.
L. 10	Screw Cutting Lathe	18" dia. x 4 feet	"	1910		2" do.
L. 11	Screw Cutting Lathe	14" dia. x 5 feet	"	Unknown		
L. 12	Screw Cutting Lathe	20" dia. x 2 feet	Made in Sho_	1915		

	16" Stroke Travel 24"	John Burton			
18. Lathe sliding surfacing and screw cutting	9.½" centres 10'-3" between centres	Sandycroft	-	Poor	Solid Spindle
20. Do	11" centres 8'-9" between centres	Sandycroft	-	Poor	Solid Spindle all geared head
21. Gap Lathe sliding surfacing and screw cutting	7.½" centres 5'-4" between centres	J.W.Carr	-	Fair	1¼" Hollow Spindle
22. Lathe sliding surfacing and screw cutting	7½" centres 6'-0" between centres	Smith and Coventry	-	Fair	Solid spindle all geared head
24. Radial Drilling Machine	3' - 6" Drilling Arm	-	-	Fair	
25. Universal Milling Machine	Longitudinal feed 36" Transverse " 12" Vertical 18"				Complete with Universal vertical attachments.
28. Sensitive Drilling Machine	16" dia. table	Jones Shipman	1920	Good	Solid spindle 1½" to Drill 6" deep
29. Slotting Machine	9" stroke 30" dia table	Smith & Coventry	-	Fair	
31. Rapid Power Hack Saw	18" Blade	Albert Herbert	-	Fair	
32. Lathe sliding & surfacing	6" centres	-	-	Poor	3" Hollow Spindle
33. Gap lathe sliding surfacing and screw cutting	4" centres 1'-10" between centres	Brittannia	1922	Fair	3/8" Hollow Spindle all geared head
34. Do.	6.½" centres 3'-0" between centres	Atlas	1928	Good	1.½" Hollow Spindle all geared head
35. Screwing Machine	Bolts 3/8" to 1.½" and pipes upto 2".	Landis	1938	Good	Landis 2" Single head pick of gears to give 6 spindle speeds
- Tool Grinder	6" wheels	Mine made	1960	Good	

NRM:G

"COPY"

N. V. Siddalingappa
Director of Industries & commerce.

GOLD

THE ORIENTAL MINING COMPANY OF INDIA, LTD.
(Incorporated in England)

Appendix II to Form Lob A.

DIRECTORATE OF ORDNANCE FACTORIES

Note:- In the case of large works a separate page of this appendix to be used for each type of Machine

SURVEY REPORT NO.

PARTICULARS OF THE PLANT

Index No.	Type of machine	Capacity i.e. maximum size of job handled	Maker's Name	Date of supply	Condition vide Sub-Head 14.	Remarks e.g. State whether lathes are hollow spindle, give motions of milling machines etc.
1	2	3	4	5	6	7
1	Gap lathe sliding surfacing and screw cutting	10" centres 5'-5" between centres	Sandycroft	-	Very poor rough work only	Solid spindle all geared head
2	Do	14" centres 12' 2" between centres	Ibbatson	-	Fair	Do
3.	Do	10" centres 19' 3" between centres	Balling & Lave	-	Fair	Do
6.	Lathe sliding surfacing & scre w cutting	12" centres 12'-4" between centres	Sandycroft	-	Fair	Do
5.	Horizontal Boring Machine	Maximum facing 24" dia	H.W.Kearns	1920	Good	
6.	Planning Machine	10'-6" Stroke 4' 2" between columns 3' 6" under Cross Rails	John Strik	1920	Good	
8.	Gap Lathe Sliding surfacing and screw cutting	10" centres 6' 8" between centres	Ryder	1920	Good	1.$\frac{1}{2}$" Hollow Spindle all geared head.
9.	Slotting Machine	19" stroke 36" dia. table	Wm. Muir	1920	Good	
10.	Sensitive Drilling Machine	21" dia. table	Coronna No. 7A Alfred Herbert	1920	Good	Solid. spindle 2" dia. to drill 8" deep
11.	Radial Drilling Machine	3' Drilling Arm	Tullis	1920		

5	Semi Auto Capstan	Centre 6.½" work of 7" x 1' 6" over saddle	Alfred Herbert (India) Ltd. No. 4	Dec.- 1936.	First Class	2" Hollow Spindle. Equipped for Chuck work
6	Shaping Machine	23" Stroke Work 12" x 12" x 12"	Unknown	About 30 years old	Very Poor	
7	Milling Machine	Table 3' x 15"	Bickanson & Co., Keighley		Inaccurate	Double horizontal traverse
8	Pillar Driller	Chuck to table Drills 1" holes	Rockford, U.S.A.	about 1900	Very [illegible]	
9.	Radial Driller	Chuck to table 27" Bed 3' x 2' 6"	Unknown	1920	Do	
10.	Sensitive Driller	Drills ½" Hole	Maxwell Co., New York	1920	Do	
11.	Power saw	4" x 4" Bar	Alfred Herbert (India) Ltd.	Dec. 1936	Good condition	

"COPY"

N. V. Siddalingappa
Director of Industries & Commerce.

NRM:4

THE KOLAR GOLD FIELD ELECTRICITY DEPARTMENT

Appendix II to Form Mob A

DIRECTORATE OF ORDNANCE FACTORIES

Note:- In the case of large works a seperate page of this appendix to be used for each type of Machine.

SURVEY REPORT NO. PARTICULARS OF PLANT

Index No.	Type of Machine	capacity i.e. maximum size of job handled	Maker's Name	Date of supply	Condition vide sub head 14	Remarks e.g. state whether lathes are hollow spindle, give motions of milling machines &c.
1	2	3	4	5	6	7
1	Centre Lathe (S.C.)	15" Centres, Work of 19" Dia. x8' 6" over saddle	S.W.Putnam Sons, Mass U.S.A.	About 30 years old	Inaccurate	3" Hollow Spindl
2	Do	6" centres, work of 8" dia. x 3' over saddle	Tangye, Ltd. Birmingham		Do.	Solid spindle
3	Do	6¾" Centres, work of 8" dia x 2' 6" over saddle	F. E. Reed Co., Mass, U.S.A.		Do	Do
4	Do	3.½" Centres. Work of 3" Dia	Drummond Bros., Ltd.,			

THE OORGAUM GOLD MINING COMPANY OF INDIA, LIMITED.
(Incorporated in England)

27

SAW MILL

Index No.	Type of machine	Capacity i.e. maximum size of job handled	Maker's Name	Date of supply	Condition vide sub head 14	Remarks e.g. State whether lathes are hollow spindle, give motions of milling machines etc.
1.	Bandsaw	1¼" x 17'-2"	Mine Made	-	Good	
2.	Do.	6" x 41'-3"	T. Robinson & Son	-	"	
3.	Circular saw	3'-6" dia.	Abbotson Brothers	-	"	
4.	Do Do. small	2'-6" dia.	Black Sellers & Company	-	"	
5.	Planning Machine	Blade 15¼" x 3½"	A. Ransome & Co.	-	"	
6.	Sharpending Machine	-	Do.	-	"	

Oorgaum,
th January 1941.

(Sd.) G. BENN WHITE
Superintendent

(Sd.) J.V. EVERITT
Chief Engineer.

"COPY"

NRH:

N. V. Siddalingappa
Director of Industries & Commerce

9. Vertical Milling Machines - Nil.

10. Horizontal " " - 1 13" gap, 2' 9" travelling length

11. Cylindrical, Multipurpose & centreless grining machines - Nil

12. Surface grinders - Nil

13. Tool & Cutter Grinders - 3 Ordinary tool charpending grinders

14. Slotting Machines - 1, 11" stroke, 18" trav. length, 1'-6" gap.

15. Broaching machines - Nil.

16. Power Presses - Nil

17. Stand Presses - Nil

18. Heat Treatment, Furnaces, Electric, Gas & Oil fired - Nil.

19. Forging Machines - Nil

20. Foundry Machines - Nil

21. Saw Mill Machines - 2 Loggin, logs up to 3.1/2" in dia. 24" stroke

22. Key seating machines - Nil

23. Automatics - Nil

24. Screwing Machines, Bolts & Pipes - 3 - ¼" to 2.1/2" dia, pipes & 1.1/4" to 1.1/2" dia bolts.

25. Blowers - 3 Roots Blacksmiths Blowers

26. Compressors - Nil

27. Bar Rebling Machines - Nil

N. V. Kidadaligappa

Director of Industries & Commerce.

THE MYSORE GOLD MINING COMPANY LTD.

Details of Machine Tools held.

1. Lathes, Sliding, surfacing & screw cutting .. 16 all screw-cutting

	Capacity i.e. maximum size handled	Length between centres	Dimension of hollow spindle	Dimen. of Gap.
Latho	8.3/4" centres	4'-10"	1.3/4"	13.1/2"
"	8.1/2" "	6'-3"	No.	14"
"	12.1/2" "	13'- 2"	No.	16"
"	8.3/4" "	4'- 8"	1.1/2"	No.
"	6.1/4" "	3'- 8"	No.	10.1/2"
"	9" "	4'- 8"	1.1/2"	No.
"	12" "	12'- 2"	No.	18"
"	8" "	8'-5"	2"	12"
"	14" "	12'-6"	No.	13.1/2"
"	14" "	8118"	No.	Upto 7 ft.
"	7.3/4" "	3'-9"	No.	10"
"	7.1/2" "	3'-2"	No.	10"
"	7.1/2" "	3'-5"	No.	9"
"	6" "	4'-10"	1"	7"
"	6" "	3'-3"	No.	8.1/2"
"	7" "	3'-3"	1.3/6"	11"

2. Lathes, Capstan, Turret etc. 1 Turret. 12" " 4'-2" 4" No.

3. Shaping Machines - 3.
20" stroke, 6'-9" travelling length
14" " 13" " "
10" " 18" " "

4. Horizontal
5. ~~Vertical~~ Boring & Turning Mills - 1 Universal, 4'-3" Length between centres

Vertical " " " - Nil.

Planing Machines including open side - 2 (Open side Nil)

Stroke 4'-0" 24" trav. length
" 6'-0" 30" " "

7. Drilling Machines (Other than Radial) 2 One 18" length between centres
One 11" Do.

8. Radial Drilling Machines 2 One 3'-10" and another 4' 3" Radial distance

Sl. No.	Name and address of Factory possessing Machine Tools.	Lathes, sliding, surfacing and screw cutting.	Lathes, capstain, turret, Etc.	Shaping Machines.	Vertical Boring and Turning Mills.	Horizontal Boring and Turning "	Planing Machines reversing open side.	Drilling Machines other than radial	Radial Drilling Machines.	Vertical Milling Machines.	Horizontal Milling Machines.
		1	2	3	4	5	6	7	8	9	10
1.	The Bangalore Woollen Cotton & Silk Mills Co., Ltd., Bangalore.	18	-	2	-	-	1	4	3	-	1
2.	The Central Industrial Workshop, Bangalore.	1 13(under repairs)	3 (One Not in working Order)		-	1 (small)	2	3	2	-	1 (Unive
3.	The Steel Construction Co., Ltd., Hardinge Road, Shankarapuram, Basavangudi P.O., Bangalore.	5	-	2	-	-	1	2	-	1	3
4.	The Globe Iron Foundary, Magadi Road, Bangalore.	3	1 wheel turning lathe not in service.	1	-	-	1	2	-	-	-
5.	Messrs. Shanmugam & Sons., Engineering works and repair workshop, Kalasipalyam, B'lore City.	Particulars not received.									
6.	The Government Electric Factory, Mysore Road.	Particulars separately (vide list attac									
7.	Messrs. P.M.Mudharai Mudaliar, & Sons., Iron Foundary, Cottonpet.	Particulars not received.									
8.	Messrs. Eswara Iron Foundary, near City Railway Station.	—	-	-	-	-	-	-	-	-	-
9.	Messrs.Khoday Engineering Works, near City Railway Station.	5	-	1	-	-	1	2	-	-	-
10.	Messrs.ORR and EMM Textile Engineering, Cottonpet, B'lore City.	2	1	2	-	-	-	2	1	—	-
11.	Sri Krishna Engineering Works, B'lore.	Particulars not received.									
12.	The Mysore Metal Industries, Ltd., Mgm Magadi Road.	-do-									
13.	The Mysore Glass & Enamel Works, Ltd., Yelhanka.	-do-									

Sl. No.	Name and address of Factory possessing Machine tools.	1	2	3	4	5	6	7	8	9	10	11	12
14	Jubilee Saw Mills, Cottonpet, Bangalore City.	-	-	-	-	-	-	-	-	-	-	-	-
15	Annapurna Cooker Co., Basavangudi.	4	-	-	-	-	-	2	-	-	-	-	-
16	Sattarkhan's Workshop, Narasimharaja Road.												
17	Normal & Training Institute, & Workshop, Kolar.	2	-	-	-	-	1	2	-	-	-	1	1
18	John Taylor & Sons, Gold Mining Co., Ltd.,				1 14"								
19	The Mysore Sugar Co., Ltd., Mar[illegible]	-	4 Lathes	1(24" all geared lathe 1(11" -do-) 1(9" -do-) 1(6 " -do-)	stroke		1	-	2 (one 4" & 2 other 3" long arm)	-	-	-	-
20	The Mysore Iron & Steel Works.	Particulars separately furnished. (Vide Stateme											
21	B.M.Engineering Works, Brass and Iron Founders, Chickmagalur	5	-	-	-	-	-	2	-	-	-	-	-
22	Sri Amuteswara Saw and Rice Mills, Tarikere.	-	-	-	-	-	-	-	-	-	-	-	-
23	Methodist Mission Workshop and Industrial School, Tumkur.	3 wood turning lathes	-	One spindle moulding Machine.	-	-	1	-	-	-	-	1	-
24	Sri Basaveswara Saw Mills, Tarikere.	-	-	-	-	-	-	-	-	-	-	-	-
25	Sri Chamarajendra Technical Institute, Mysore.	7 (5 not in good working order)	-	1 of 10" stroke	-	-	-	2 (not in good working order).	-	-	-	1 tool grinder	-
26	Government Saw Mills, Shimoga	-	-	-	-	-	-	-	-	-	-	-	-
27	The Sarvamanya Saw Mills & Wood Works, Mysore South.	-	-	-	-	-	-	-	-	-	-	-	-
28	Siddalingeswara Samy Saw Mills & Wood Works, Mysore.	-	-	-	-	-	-	-	-	-	-	-	-
29	The District Industrial Workshop, Shimoga.	2	-	1	-	-	-	1	1	-	-	-	-
30	M/s John Taylor & Sons, Mining Company, K.G.F.	Details not yet received.											
31	Mysore Railway Workshop	Details not yet received.											

13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	-	-	-	-	-	-	-	Saw Millo	-	-	-	-	-	-	-
	-	-	-	-	-	—	-	-	-	-	-	2	-	-	-
	1	-	-	-	-	-	-	3	-	-	-	-	-	-	-	One Metal Bar Cutter One Metal Punch
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2 -(One Compound air Compressor B lt driven Air Cylin dore and 1 ingle Cylinder air compounder).

) II).

2	-	-	-	-	1	-	2 Metal melting Furnace & Oxy-Acetylene Welding plant)	-		1	1	1	—		
-	-	-	-	-	-	-	-	1 2 Frames & 1 Bench.	-	-	-	-			
		-	-	-	-	-	-	5 One Horizontal Log Sawing Machine. One B and Saw. One Cir. Saw. One Cross Cutting saw. One Front Saw with boring attachment.							One Chain mortising machine and one Gulloting machine
-	-	-	-	-	-	-	-	- inverti- cal saw frame & 1 saw bench.	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	
				(1 small circular saw Bench, One Band saw and One Horizontal power Sawing Machines)											
-	-	-	-	-	-	-	-	- Circular-	-	-	-	-	-	-	
				saws 36" by 1½" Frame saws 5' 3½" Pruning cross cutting hand saws.											
-	-	-	-	-	-	-	-	One vertical frame	-	-	-				
				saw mill, one circular saw bench, One Electric casing machine, one Electric wood turning head stock.											
-	-	-	-	-	-	-	-	1 vertical saw mill 2 Circular saw Mill.	-	-					
1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-

			between centres - 15"	
12.	-do-	Betters - Bridleford Rochester, N.Y., U.S.A.	Length of bed -16'-6". Distance between centres - 13' 8½". Height of the centre to the bed 18". Motor H.P.25.	Gears require replacement.
13.	-do-	Smith Convertrary & Co. Manchester, England.	Length of bed -30'. Distance between centres - 23'-6". Height of the centre to the bed -26⅛". Motor H.P.10	
14.	-do-	Baggalore Industrial Workshop.	Length of bed -42". Swing on saddle - 13". Motor H.P.10.	
15.	Lathe, sliding, surfacing and Boring without screw-cutting.		Length of bed -34". Swing without saddle -27". Motor H.P.10.	Bought as scrap.
16.	-do-	D.New & Co., Makers Nottingham.	Swing of the saddle -28" length of bed 123". Length of bed 10' -3".	Bought second hand. (Very slow work.)
17.	-do-	John Lang & Sons Ltd. Johnstone.	Length of bed 66". Swing on saddle 39" Distance between centres 41".	Bought second hand, Bombay.
18.	Shaping Machines.	The Rakelly Co., Xenia O. U.S.A.	Stroke -0" to 20". Bed level 24". Motor H.P.10.	Bought second hand.
19.	Shaping Machine.	Herules Macline Tools, England.	Stroke -14". Maximum Stroke-2". Menimum Motor H.P.10.	Medium work.
20.	-do-	Niles Bement Works, Philedelphia.	Stroke - 22". Maximum Stroke 2" minimum. Motor H.P.10.	Small size work only.
21.	Verticle Boring and Turning Mill.	Webster & Bement Co., Ltd. Coventry, England.	Stroke -24". Cross rail level 26" & 18" Motor H.P.10.	Second hand, Bombay.
22.	Horizontal Boring and Turning Mills.	D & J Tullis Ltd., Clyde Band	Length of bed -5'. Wideth -3'. Motor H.P.5.	Second hand rough drilling
23.	-do-	William Muir & Co., Ltd. Manchester, England.	Length of bed 63". Distance between swingle centre and cross table - 40". Motor H.P.5.	Second hand slow work.
24.	Planning Machines.	The Liberty Tool Machine Co. Hamilton	Length of bed -10'-9" and width -20". Motor H.P.5.	Requires complete over haul (small work.)

THE MYSORE IRON AND STEEL WORKS.

DETAILS OF MACHINERY IN THE MACHINE SHOP OF THE MYSORE IRON AND STEEL WORKS, BHADRAVATI.

Sl.No.	Type of machine.	Manufacturers.	Brief Description.	Remarks.
1.	Lathes, Sliding, Surfacing and screw cutting.	Denham, England.	Distance between centres - 96" Length of bed - 105" Medium work, Motor H.P. 5. Height of the centres to the bed 10/1/2".	Ordinary work.
2.	-do-	Clark's Machine tool company, Albion Works England.	Length of bed - 54". Distance between centres - 44". Motor H.P.1. Height of the centre to the bed - 62 6"	Small lathe.
3.	-do-	-do-	Length of bed -138" Swing on saddle - 27". Distance between centres - 10'-8". Motor H.P.5.	
4.	-do-	Monarch Machine, Company, U.S.A.	Length of bed - 55". Swing on saddle 11". Distance between centres - 49"	Medium lathe
6.	-do-	Dean Smith Grace Company, England.	Length of bed 59". Swing on saddle - 10⅛". Distance between centres 53". Motor H.P.5.	Bought second-hand.
7.	-do-	The Hendey Manufacturing Co., Torrington, U.S.A.	Length of bed 92". Swing on saddle 9". Distance between centres 71". Motor H.P.5	Small work.
8.	-do-	Kranse Company, Berlin.	Length of bed - 54". Swing on saddle ⅛". Distance between centres - 40" Mtor H.P.1.2	Small lathe.
9.	-do-	The Birmingham Foundry & Co., U.S.A.	Length of bed -108". Swing on saddle-15". Distance between centres -41". Motor H.P.7.5	Bought second-hand.
10.	-do-	The Rahu Larmon Co., Cincinati. U.S.A.	Length of Bed -48". Swing on saddle 9". Distance between centres 68". Motor H.P.10.	For geheral use.

	Company.		
40. Bar and Plate Rolling Machine.	Craig & Donald, Ltd., Johnstone Scotland.	Capacity 9' - 5/8". Motor Plate Motor H.P. 15.	Requires heavy repairs.

C O P Y.

25. Planning Machine with open sides.	Unite Machine Tool Co., Ltd., Hatfox, England.	Length of bed -17'-6". Width 3'-10". Motor H.P.25	Open sided Heavy work.
26. Drilling Machines.	Carons, England.	Capacity 1/32" to 1¼". Table dia. 18". Motor H.P.5.	Second hand Rough work.
27. -do-	Fairbanks Co., U.S.A.	Capacity - 1/32" to 1¼". Table dia. 18". Motor H.P.5	Not fit for accurate work.
28. Drilling Machine	-do-	Capacity - 1/32" to 1¼" Table dia. 18". Motor H.P.3	Small. Not accurate.
29. Radiol Drilling machine.	Sheppard Hill & Co., Leeds	Capacity Maximum 3". Minimum ¼". Motor H.P.5	Second hand.Very rough work.
30. -do-	Beruk and Comens, Anvers.	Capacity -1/4" to 3". Motor H.P. 5D 7.5	General work.
31. Horizontal Milling Machines.	Robson Universal Miller 2 A.	Bed travel 18". Crosswise. Bed Travel 24". Motor H.P.5	Second hand.
32. -do-	Led Blond No.2 Heavy Duty Miller, U.S.A.	Length of bed travel 18". Motor H.P. 5	For work yp to 18" only.
33. Slotting Machines.	The Dean Smith & Grace Tool Makers, Keighley, Yorks, England.	Max. Stroke 10". Table dia. 41". Motor H.P.10	Second hand. Rough work.
34. -do-		Stroke. Table dia. 31" Motor H.P.10	-do-
35. Lever Press.	Niles Bement Pond Co., Hamilton, Ohio.	Capacity Tons on 9" ram 200 tons Motor H.P.3	General use.
36. Stand Press.	Atlas Compound Hand Press Co Kalazoomien U.S.A.		Second hand for small work only.
37. Screwing Machines Bolts & Pipes.	William Tool Co., Eriepanss.	Max. Capacity 4". Minimum ¼". Motor H.P. 10	Particularly useless.
38. Compressors.	Ingersoll Rand & Co., New York.	Air 10 x 8 . Motor H.P.25	
	Consolidated Pneumatic Tool	Motor H.P.3	

transverse motion of table 4".

7.	Gear Hobbing Machine. with 3 H.P. motor working bed dia. 2 ft. cutter slide movement 12" vertically, transverse movement of the working bed 21" and longtitudial movement of the cutter slide 4"	Second-hand-working satisfactorily.	-do-	-do-	Tight work.
8.	Horizontal Milling Machine with 3 H.P. motor, working bed 43" x 12", transverse movement of the bed 7½", horizontal movement of the bed 30" and vertical movement of the bed 18"	-do-	-do-	-do-	-do-
9.	Vertical Milling Machine with 3 H.P. motor, working bed 40" x 12" transverse movement of the working bed 11" horizontal movement of the working bed 32", vertical movement of the working bed 14" side vertical movement of the	Second hand-used only for facing, boring and drilling.	-do-	-do-	-do-
10.	Radial Drilling Machine. With 3 H.P. Motor. Working bed 20" x 20" vertical movement of the spindle 10" and horizantal movement of the spindle slide 2 ft.	Purchased now working in good condition	-do-	Accurate work.	-do-
11.	Universal Grinding Machine. With 5 H.P. motor. Working bed 61" x 8" Horizontal movement 54" Transverse grinding stone olide moving 12"	Second-hand working satisfactorily.	-do-	Accurate	Occasion.
12.	Lathe No.1 with 2 H.P. motor. Working bed 42" x 10¾", Swing radius 8", owing of the gap 13" and length between centres 21"	Most inaccurate No change wheels are available. New bearing are required.	-do-	Rough work.	Tight work.
13.	Lathe No.2 with 3 H.P.Motor:- Working bed 95" x 9⅛", Swing radius 7⅝" and between centres 77"	Second hand. Requires slight alteration for accurate work.	-do-	-do-	-do-
14.	Lathe No.3 with 3 H.P. Motor.- Working bed 56" x 14", Swing 9" radius and between centres 36"	Second hand-Working satisfactorily.	-do-	Moderate and plain work - no facili for change No tail	

GOVERNMENT ELECTRIC FACTORY.
MACHINE DEPARTMENT.

Sl. No.	Machine with general specification.	Condition of machine	In use or not.	If use, is it for precision work	If used, engaged fully with tight work, occasional or light work.	Remarks.
1.	Shaping Machine No.1 "Turner Hoare & Co., Bombay with (3 H.P. Motor). Stroke 18" working bed 16" x 12" movement of the tool holder 6" vertically working bed movement 12" vertically and 16" horizontally.	In good working condition.	In use	Yes	Tight work.	
2.	Shaping Machine No.2 "Toopox" Swedish make with 3 H.P.motor stroke length 24" working bed 23" x 13" Tool Holder slide 6" vertically bed movement 12" vertically 16" horizontally.	-do-	-do-	-do-	-do-	
3.	Shaping Machine No. 3 "Paris" with 3 H.P. motor stroke length 18" working bed 17⅛" x 11⅜" Tool Holder slides 4", vertically, working bed movement 20" vertically and 12" horizontally.	Second hand required slight repair.	-do-	rough work	-do-	
4.	Big Planning Machine. "Miller" with 15 H.P. motor and starter, Stroker length 13' working bed 16 ft. x 3½ ft double tool holders, movement 4 ft. horizontal and 3½ ft. vertical.	Second hand working unsatisfactorily	-do-	Moderate work.	-do-	
5.	Slotting Machine. with 2 H.P. motor Ram stroke 5", horizontal movement of bed 16" transerve movement 16" and diameter 20"	-do-	-do-	-do-	-do-	
6.	Boring machine with 15 H.P. motor and starter. "Geo Richards & Co., Ltd" Max. diameter of facing 24" withspecial tools the facing could be done to 42", vertical, transverse of sliding head 18", size of the main table length 5 ft. breadth 3 ft. size of the detached turn table	Second hand light repairs effected - working satisfactorily.	-do-	-do-	Light work.	

25. Pilles Drilling Machine with 2 H...Motor:- Vertical movement of the spindle, R ...ius of the working bed 8 3/16", Vertical movement of bed 23" and the distance from the tangant of the Pillar to the centre of the bed 10"	Second-hand only for very rough work.	In use for rough work	No.	Occasional work.
26. Table Vices. 4 Jaws. .. 6 Ps. 5 " .. 2 " 7 " .. 1 Ps.	Working satisfactorily	In use	No.	Tight work.
27. Marking Table()Made in Germany) Size 12' x 6' x 2½'	Purchased new	No.	O.K.	
28. Marking Table:- (G.E.F.make) Size 8½' x 3½' x 6" mounted on 3 Pillars, Height 3½'	Working satisfactorily.	In use		Tight work
29. Cupola capacity 1 Ton:- With centrifugal fan type blower run by 7 H.P. Motor.	Second-hand- Working satisfactorily.	-do-		-do-
30. Two Cupolas under erection, capacity 1½ tons each, without blower and motor.				

C O P Y.

1	2	3	4	5	6
15. Lathe No. 4 1th 5 H.P. Motor.- Working bed 72" x 12" Swing Radius 8", Between centres 58" (metric system.)	Second-hand working satisfactorily.	In use.	Satisfactory.	Tight work.	
16. Lathe No.5 with 2 H.P. motor.-Working bed, 84" x 16", Swing Radius 8" and between centres 61"	-do-	-do-	Medium.	-do-	
17. Lathe No.6 with 2 H.P. Motor:- Working bed 72" x 15", Swing 8" radius and between centres 54"	-do-	-do-	-do-	-do-	
18. Lathe No.7 with 2 H.P. Motor:- Working bed 83" x 15", Swing 8" radius and between centres 63"	Second-hand. No change wheels.	-do-	Rough work.	-do-	
19. Lathe No.8 with 2 H.P. Motor:- Working bed 42" x 12", Swing R diuo 7" and between centres 28"	Purchased new. In good condition.	-do-	Tiny work in accurate.	-do-	
20. Lathe No.9 with 2 H.P.Motor:- Working bed 72" x 15", Swing R diuo 8" and between centres 54"	Second-hand. Working satisfactorily	-do-	Medium	-do-	
21. Lathe No.10 with 5 H.P.Motor:- With geared head stock- Working bed 96" x 20", Swing 11" radius and between centres 70"	Second-hand in good condition.	-do-	Satisfactory	-do-	
22. Lathe No.11 with 3 H.P.Motor:- Working bed 57" x 12" Swing 8½" Radius and between centres 36"	In good condition	-do-	For accurate work.	-do-	
23. Lathe No.12 with 3 H.P.Motor:-Working bed 96" x 15½, Swing 10" radius and between centres 74"	Second-hand in good condition.	-do-	-do-	-do-	
24. Small Planning Machine, with 5 H.P.Motor:- Stroke length 60" Working bed 72" x 21" Horizontal movement of the tool holder 21" and vertical movement 24"	Second-hand used for rough work.	-do-	Inaccurate.	-do-	

3. Match Makers' Capstan Lathe with motor	Good	In use	Fit	Tight work	No machine can be spared. from this section.
4. Taping Machine.	Slight attachment required.	..	..	...	
5. Pivot Burnishing Machine.	Good	In Use.	Fit	Light work.	
6. Cutter Grinding machine.	"	"	"	"	
7. Gear Hobbing Machine.	"	"	"	"	
8. Milling and Drilling machine	"	"	"	"	
9. High Speed Drilling Machine	"	"	"	"	
10. Drilling Machine (Flott)	"	"	"	"	
11. Drilling Machine (Tauco)	"	"	"	"	
12. Bench Lathe 4" x 12"	Average.	"	Not fit.	Tight work.	
13. -do- 2" x 4"	"	"	"	"	

TOOL MAKING SECTION.

1. Lathes.	Swing	Bed				
(a)	14"	4 ft.	Good	In use	Precision work.	No machine can be spared from this section
(b)	15"	4 ft.	Good	In use		
(c)	14"	4 ft.	Good	In use		
(d)	15"	3½'	Good	In use		
(e)	16"	4½'	Good	In use		
(f)	9"	3"	Fair	In use small rough work		
2. Combined Filling and Sawing Machine (Thiels 16)			Good		Precision work.	Light work.
3. Vilt Pederson Heady duty Milling machine			"	-do-	-do-	Tight work
4. Torpan Shaping Machine.			Fair	-do-	Rough work.	-do-
5. Jhones and Shipman 1" Drilling machine			Good	-do-	Precision work	-do-
6. Aurbach Drilling Machine			Fair	-do-	All right for general work.	-do-

GOVERNMENT ELECTRIC FACTORY.

FORGING SECTION.

No.	Specification.	Condition of machine	In use or not	Whether fit for precision work.	Whether light occasional or tight work.	Remarks.
1.	Greenwood & Batley Big Forging Machine	Not satisfactory.	In use	Not for precision work.	Tight work.	Cannot be spared.
2.	-do- small -do-					
3.	Threading machine.	Fair	-do-	"	-do-	
4.	Drilling machine	Requires repair	Not in use	"	--	
5.	Nuto Taping machine	Fair	-do-	"	--	-do-
6.	Bolts Screwing machine	Bad	In use	"	Light work	-do-
7.	Big Friction Press.	Good	In use.	yes	very light work	-do-
8.	Peter Piltington Patent Pneumated Power Hammer.	Fair	-do-	Useful for rough work.	Tight work.	-do-
9.	Punching & Shearing Machine (similar to one in C.I.J.)	Good	Not in use	Can be used for structural work	Not used.	
10.	Two pipe threading machine.	Requires heavy repair.	"	Not fit for precision work.	-do-	

INSTRUMENT SECTION.

1.	Lathe 2'n 4" - No screw cutting attachment provided with motor.	Good	In use	...	Light work.	Cannot be spared.

GENERAL SERVICE.

2.	Centrifugal Pump with a 3 H.P. motor can develop about 40 ft. head.	This set is used for pumping water for the use of General service.

Meter Section.

	accurate		precision work	tural work lightly.	
2. Small Grinding Machine 12" wheel. 1 H.P. motor (made in the workshop)	Good	Used	Mxed...	Tight work.	
3. Big Grinding Machine 16" grinding stone with motor (locally built)	"	"	...	do.	
4. Drilling Machine ½" size with motor, motor provided.	"	In use	Fit for work	Light work	Cannot be spared.
5. Spinning Lathe, 6' x 18" - no motor attachment.	Out of order	"	...	...	Requires repair.
6. Capstan Lathe 6" x ~~x~~ 4'	Good	Used	Not fit for precision work	Tight work	
7. Southbend Lathe 3' x 8"	Good	"	Fit for precision work.	do.	
8. Lathe. 6' x 12"	Average	"	Not fit	For all minor works.	
9. Lathe. 5' x 12"	Only used for surfacing.		No screw cutting attachment		
10. Electric Motor 1 H.P. each.	[illegible]				

METAL PRESSING SECTION

1. Esaky Press.	Good	In use	Yes	Tight work	Cannot be spared.
2. Tauco Table Drilling Machine	"	"	"	Light work	-do-
3. Sheet cutting machine.	"	"	"	Tight work.	-do-
4. Hand Screw Presses.	7 Good order 3-Gun Metal bushing to be replaced 2-Base Cracked	In use Not in use	Not precision work.	-do-	

GOV[illegible] ELECTRICAL DEPARTMENT.
Tool Making Section (contd.)

7. Portable Flexable Grindor with Motor attachment.	Good	In Use.	Satisfactory working	Tight work.	No machine man can be spared from this section.
8. Overhead Flexable Drive.	Good	do.		-do-	
9. 50 Ton Press.	Good	do.		Trial purposes	
10. Pekel Engraving Machine, Cutter, Grinders	Good	do	Precision work.	(Occasional) tight work.	
11. Pekel Tool Milling Machine, Universal Type	Good	do	-do-		
12. Screw Press.	Fair	do.	Trial purposes only not very accurate.	Light work.	

CARPENTRY SECTION.

1. Drilling Machine "Tauco" 0.6 BHP.Brown Boveri Motor.	Good	do.	Fit	Light	
2. Drilling Machine, Walker, Turner Co., with G.L.Motor	"	"	"	"	
3. Protsaw Machine 'Elta' with ½ H.P.Motor	"	"	"	"	
4. Brandsaw Machine, 'Delta' with motor	"	"	"	"	
5. Wood turning Lathes, two in number with motors.	"	"	"	Tight	1 to 8 cannot be spared.
6. Circular Saw Machine made at G.E.F.with motor.	"	"	"	Light	
7. Planning Machine 6" capacity with "Delta" motor.	"	"	"	"	
8. Circular Saw Machine "Delta" with motor	"	"	"	"	
9. Electric Motor, Crompton 1/3 H.P.(Removed from Grinding machine.)	"	"	"		

SCREWING MAKING SECTION.

Government Electric Factory.
Meter Section (Contd.)

No.	Machinery with general specification.	Condition of machine.	In use or not	Whether fit for precision work.	Whether light occasional or tight work.	Remarks.
12.	Bench Lathe - South Bed - 4' x 9'	Good	In use	Fit	Tight work	
13.	Lathe "Rivet" 2½" x 9"	"	"	"	-do-	
14.	Lathe 3½' x 12" (screw cutting etc.)	"	"	"	-do-	
15.	Capstan Lathe.	"	"	"	-do-	
16.	Hand Lathe.	"	Not in use	"	-do-	No machine can be spares from this section.
17.	Grinding Machine (locally made) for tool grinding etc.	"	Used	Fit		
18.	Screw Press.	Average.	In use.	Not fit	Light.	
19.	Watch makers' Milling Machine	Requires repairs.	Not in use			
20.	-do- Hand Dividing machine	"	"			

Supplemental list showing the names and addresses of factories possessing machine tools.

Name and address of factory.	Particulars of machine tools in their possession.
1.The Mysore Glass & Enamel Works, Ltd., near Yeswantpur Railway Station Bangalore.	(1) One Lathe, sliding, surfacing and screw cutting. 5' size. 8½" below centre. Gap.6"
	(2) One Lathe -do- 4' size, 8½" below centre with 7" gap.
	(3) One Lathe -do- 3', 5½" below centre, 6" slide surface.
	(4) One Shaping machine 12" stroke, vertical 2' slide, horizontal 1¼' slide.
	(5) One power Fair Blower 12" dia. 2" delivery
	(6) One Hacksaw machine 12" size.
	(7) One Power Drilling machine 1¼" dia. hole capacity 7" deep. Distance from centre to column 10".
2.Messrs.Madurai Mudaliar and Sons, Iron Founders, Bangalore City.	(1) 5 Lathes, sliding, surfacing, screw-cutting.
	(2) One Lathe plain having fitting for taper forming.
	(3) One Lathe plain.
	(4) One twelve-inch stroke double head shaping machine.
	(5) One ten-inch vertical boring and shaft keyway cutting machine.
	(6) One Planning machine 6'x2½'x2½' with two heads at top and 2 at sides.
	(7) One universal No.4 Horizontal Milling machine combined with 3 H.P. motor.
	(8) Two small tool grinders.
	(9) One small Universal cutter grinder combine with motor.
	(10) One Slotting machine of 11" stroke.
	(11) One Iron saw to cut up to 4".
	(12) One handscrew machine up to 1"
	(13) One 4" blower for Smithy work.
	(14) One 8" Roots blower combined with 10 h.p. motor for cupola.
	(15) One three-inch slide radial drilling machine 4½' radius.
	(16) One Pillar vertical drilling machine.
	(17) One " light type " up to 3/8".

	(18) One plain sheet bening machine.
	(19) One corrugated sheet being machine.
	(20) One gas welding plant.
3.The Government Power and Light Workshop, Mysore.	(1) 2 Lathes sliding, surface and screw cutting.
	(2) 1 planing machine.
	(3) 3 Radial Drilling machines.
	(4) 1 hand drilling machines.
	(5) 1 screwing machine.
	(6) 1 Blower - centrifugal.
	(7) 1 Forge Portable.
	(8) 1 Punching, Angle Iron Cutting MM and shearing, machine.
4.Messrs.Sadasiva Saw Mills and Wood Works, Bamboo Bazaar, Mysore.	(1) 1 Frame saw.
	(2) 1 vertical saw.
	(3) 1 bench.
	(4) 1 Emery Grinder.
5.The Coorg Industries and Saw Mills, Mysore South	(1) 2 vertical sawing machines.
	(2) 2 saw benches.
	(3) 1 grinding machine.
	(4) 1 planing machine.
	(5) 1 curve cutting machine.
6.The Mysore Engineering Works, Iron and Brass Founders, Hassan.	(1) 6 Lathes, sliding, surfacing and screw-cutting.
	(2) 1 shaping machine.
	(3) 1 ordinary lathe.
	(4) 1 planing machine.
	(5) 3 ordinary drilling machines.
	(6) 1 horizontal milling machine.
	(7) 1 grinding machine.
	(8) 1 punching and shearing machine.
7.Sri Satyaranaya Engineering Works, Hassan.	(1) 2 Screw cutting lathes. (2) 1 Drilling machine (other than radial) (3) 1 Emery grinder. (4) 1 (H.P.) Forging machine. (5) 1 Fan.

8.Mr.Rajenhalli Hanumantha Rao, Ginning Factory,Banavar.	(1) 1 Drilling machine (other than radial) (2) 1 Forging machine (H.P.)
9.The Government Implements Factory,Hassan.	(1) 1 screw cutting lathe. (2) 1 (H.P.) drilling machine (other than radial) (3) 2 3 screw presses (H.P.) (4) 1 Gig saw. (5) 1 Wood turning lathe. (6) 1 circular saw. (7) 3 Pneumatic hammers. (8) 3 Machine hammers. (9) 2 blowers. (10) 1 sheet rolling machine (H.P.) (11) 4 polishing heads. (12) 1 combined punching. (13) 2 punching machines. (14) 1 Electro-plating set.
10.Messrs.Abdur Haffor & Sons, Chennarayapatna.	(1) 1 sliding lathe. (2) 2 screw cutting lathe. (3) 2 shafting machines. (4) 1 planing machine. (5) 1 Forging machine (worked by bellow).
11.Messrs.Appaji Rao & Grandson, Furniture Manufactures, Shimoga	(1) 1 saw bench. (2) 1 saw grinding machine. (3) 1 wood planing machine.
12.Mr.J.Manickyam Pillai,Workshop, Shimoga.	(1) 3 Lathes, sliding, surfacing and screw cutting. (2) 1 planing machine including open slide. (3) 1 drilling machine. (4) 1 surface grinder. (5) 1 forging machine.
13.Doss Mechanical Industrial Workshop, Shimoga.	(1) 2 Lathes 16' x 2½" and 6' x 6". (2) 2 Drilling machines. (3) 1 Tool and cutter gripder. (4) 3 saw mill machines. (5) 2 Blowers. (6) 2 Automatics.

Doss Mechnical Industrial Workshop, Shimoga.(contd.)	(7) 1 cutting and punching machine.
14.The Kolar Gold Mining Company.	Detailed lists of machine tools attached hereto.

GOVERNMENT ELECTRIC FACTORY.
LIST OF MACHINERY IN ELECTRIC TRANSFORMER SECTION.

Sl.No.	Name of Machinery.	Quantity	Remarks.
1.	Frequency changer set.	1	
2.	Testing Transformer	1	
3.	"Micafil' L.T. Winding Machine.	2	Without Tensioning device.
4.	"Chapman" Winding machine for H.T. Coils of 3 phase Transformers	2	
5.	Small Coil Winding Machine (automatic)	1	
6.	M.A.X.E. Coil Winding Machines (big)	3	
7.	-do- -do- (small)	1	
8.	Coil lowering press.	2	
9.	Impregnation Chambers (small)	2	One is under repair.
10.	-do- (big, Autoclave)	1	
11.	Hack Saw Machine "Rapidor"	1	
12.	Drilling Machine.	1	
13.	Grinding Machine	2	
14.	Portable Grinding Machine.	2	
15.	Avery Weighing Machine 2 cwt.	1	
16.	Arc Welding Sets.	2	One portable and the other not erected.
17.	Scroll Saw Machine.	1	
18.	Spray Painting Machine	1	
19.	Small Drilling Machine.	1	
20.	Transil oil Filter Press.	1	
21.	Tube making machine	1	
22.	Round coils taping machine.	1	
23.	Pipe Bending machine.	1	
24.	Marking table.	1	
25.	Machine for winding and straightening armature coils.	1	
26.	Machine process heated and cooled with accessories.	1	
27.	"Matrindale" spring winding machine.	1	
28.	Automatic Numbering machine.	1	

C O P Y.

GOVERNMENT ELECTRIC FACTORY.
LIST OF MACHINERY IN THE ELECTRO-PLATING SECTION.

Sl. No.	Name of machiner.	Quantity.	Remarks.
1.	Generator. H.P. 25. V. 220	1 piece.	
2.	Barrells	2 pieces.	
3.	Polishing lathes.	3 pieces.	

List of machinery in production Control and Packing Sections.

1.	Card board pinning machine.	one
2.	Heavy duty bending press.	one
3.	Hand press (Screw press.)	one
4.	2 cwt.Avery Balance in Purchase Department.	one

List of Machinery in the Bakelite Section.

1.	35 tons capacity Moulding press	4
2.	50 tons capacity Moulding press.	7
3.	15 tons capacity Moulding press.	5
4.	75 tons capacity Moulding press.	2
5.	Screw hand press.	2
6.	Device for taking out the bend of articles.	3
7.	1 cwt. Avery balance.	1
8.	Tabletting machine.	1
9.	Grinding machine.	3
10.	Polishing machine.	4
11.	Injection moulding machine.	1
12.	Tapping devi--	2
13.	Tauco Drilling machine.	1

C O P Y.

12	-do-	6" centres 4'-0" between centres	--	--	Poor	Solid spindle.
13.	-do-	7" centres 3'-6" between centres	--	--	Poor	-do-
14.	-do-	6" centres 8'-0" between centres	Alfred Herbert	1938	Good	Hollow spindle, 2" hole.
15.	-do-	7" centres 3'-0" between centres	Darling & Sellers	--	Good	Hollow spindle, 2½" hole reconditioned.
16.	-do-	-do-	-do-	--	Good	-do-
16.A.	-do-	-do-	-do-	--	Good	-do-
17.	Universal Miller	18" Lingitudinal feed, 10" Transverse feed, 18½" Vertical feed.	Parkson	1934	Good	Complete with Universal Vertical Attachment.
18.	-do-	28" Lingitudinal feed 8½" Traverse feed 19" vertical feed	Brown & Sharpe	1938	Good	
19.	Planer	6' Stroke, 30" between columns, 28" under Cross Rails.	--	--	Poor	
20.	H.S.Planer	8' stroke, 42" between columns, 48" under cross rails.	Bateman	1938	Good	Unit Motor drive.
21.	Slotting Machine	9½" Stroke 24" dia. Table.	Bolling & Love	--	Poor	
22.	Shaping machine	14" Stroke, Travel 24"	Alfred Herbert	--	Fair	Travelling Head Type.
23.	-do-	7" Stroke, 14" Travel	--	--	Fair	-do-
23.A.	-do-	6" Stroke, 20" Travel	--	--	Poor	-do-
24.	Horizontal Universal Boring Machine	Maximum Facing 60" dia.	Alfred Herbert.	--	Good	Unit Motor drive.
25.	Universal Radial Drilling Machine	--	Acquith.	1934	Good	Portable, Unit Motor Drive with railing Cables.

NUNDYDROOG MINES LIMITED.
MACHINE TOOLS IN WORKSHOPS.
FITTING SHOP.

Index No.	Type Machine.	Capacity i.e., maximum size of job handled	Maker's name.	Date of supply.	Condition.	Remarks. e.g. state whether lathes are hollow spindle, give motions of milling machines etc.
1	2	3	4	5	6	7
1.	Centre Lathe.	12" centres 8'-0" between centres	Dean,Smith & Grace.	1911	Good	Solid Spindle, All geared Head Unit Motor drive. Re-conditioned.
2.	-do-	-do-	-do-	1911	Fair	-do-
3.	-do-	13½" centres 8'-8" between centres	Binns & Berry	1938	Good	Hollow Spindle, 4" Hole, All geared Head, Unit Motor drive.
4.	-do-	16½" centres 17' between centres	Broadbent	1935	"	Solid spindle, Unit Motor drive, All geared Head, Swings 14' in Gap.
5.	-do-	13" centres 18' between centres	--	--	Poor	Cone Driven, Solid spindle being reconditioned.
6.	-do-	7" centres. 3' between centres.	--	--	Fair	-do-
7.	-do-	13" centres 15' between centres	--	--	Poor	-do-
8.	-do-	11½" centres 16' between centres	--	--	Poor	-do-
9.	-do-	8½" centres 7' between centres	Binns & Berry	--	Fair	Cone driven, Hollow spindle 2" hole.
10.	-do-	7" centres 4' between centres	Southbend	--	Fair	Hollow spindle 1" hole.
11	-do-	6½" centres	Alfred Herbert	1938	Good	Hollow spindle 1½" hole.

	Drilling Machines	2" dia.				
42.	Steam Hammer	20 cwt. Max. Drop 3'-0"	B & S. Massey	--	Fair	Overhung type.
43.	-do-	7 cwt.-Max.Drop 2'-3"	-do-	-do-	Fair	-do-
44.	Shearing & Punching machine.	Shearing upto $\frac{3}{4}$" plate Punching 7/8" Holes in $\frac{3}{4}$" plates.	--	--	Poor	Belt Driven.
45.	Plate Bending Roller	Roll Width 7ft.	--	--	Fair	-do-
46.	Bolt Hot Forging Machine	3/8" to 7/8" bolts	Greenwood & Batley, Ltd.	--	Fair	
47.	"Sirocco" Blower		Davidson & Co.	--	Fair	Belt driven. No.6 Type
48.	Butt Welding Machine	Max. Dia.Welded $1\frac{1}{2}$"	A.E.G.	--	Good	
49.	Plastic Arc Welder		Wilson	--	Good	Motor Driven. D.C.Welding Stationary.
50.	A.C.Welding Plant		--	--	Good	With Transformer. Nky Alloy welding process.
51	Welding plants		--	--	Good	
			Moulding Shop.			
53.	"Sirocco" Fan.		Davidson & Co.	--	Good	Belt Driven No. 5 Type
			Drill Sharpening Shop.			
54.	Salt Bath Furnace	16" L. x 1)" W. 12".D.	--	--	Good	220 Volts.
55-56	Tip Hardening Furnaces(2)	24 Drill Type	--	--	Good	Oil Fired.
57-61	Oil Furnaces (5)		--	--	Good	
62-63	Hot Millers (2)		--	--	Good	
64-65	Drill Sharpeners (2)		Climax	--	Good	
66-67	Twin Grip " (2)		Holman	--	Good	
68-70	D.Sharpeners Large		Ingersoll-Rand	--	Good	
71	-do- small		-do-	--	Poor	

26.	Radial Drilling Machine.	--	Sandycroft.	--	Poor	
27.	-do-	--	-do-	--	Poor	
28.	Sensitive Drilling Machine.	--	--			
29.	Screwing Machine	5/8" Bolt to 4" Pipe	Landis	..	Good	
30	-do-	3/8" Bolt to 1" Pipe	-do-	1938	Good	
30.A.	-do-	3/8" Bolt to 4" Pipe	Alfred Herbert	--	Fair	
31	Universal Cutter and Tool Grinder No.4	--	do.	1938	Good	Complete with Universal Attachment for Cylindrical Surface and Internal Grinding.
31.A.	Universal Grinder	6" Centres 18" between centres	Churchill	1934	Good	Internal Grinding attachments.
32.	Tool Grinder	18" Wheels.	--	--	--	
33.	Power Hacksaw	24" Blade	--	--	--	
34.	Centre Lathe	11" centres 6'-0" between centres	--	--	Poor	Solid spindle, Cone driven.
35.	-do-	7" centres 4'-0" between centres	Redman	--	Poor	Hollow spindle, 1¼" hole. Cone driven.
36.	-do-	8½" centres 4'-0" between centres	James Burton.	--	Fair	All Geared Head, Hollow spindle, 3" Hole.
37.	Upright Drilling Machine.	--	-do-	--	Fair	
38.	Power Hacksaw	22" Blade	--	--	Good	
39.	Centering Machine	--	--	--	Good.	

BLACKSMITH SHOP.-

CARPENTER SHOP.

72-73	Log Frame ~~Saw~~ saws (2)	33' feed. Hold 45" logs.	Robinson & Sons.	-	Good	Belt Driven 6'-7" x 6" saws.
74	Planer	5-¼" cutter blocks 3-15/16 dia. feed rolls	Thomas White & sons	-	Good	Belt Driven 24" x 1⅛" H.S. Steel cutters.
75.	Planer	3¼" blocks 3" feed rolls	Robinson & Sons	-	Fair	Belt Driven- 18" x 3¼" cutters.
76.	Band Saw	12" x ¾" saw	-do-	-	Fair	Belt Driven- Pair of 30" wheels.
77.	Planer Blade Sharpner	6" x 4" x ¾" grinder	-do-	-	Good	Belt Driven. 10" dia x 1½" x 1" bore chisel grinder.
78.	Log Frame saw sharpener	12" x 5/8" x 1" bore grinder.	-do-	-	Fair	Belt Driven.
79.	Circular saw bench.	36" dia. saw.	-	-	Fair	-do- 72"x 36"x36"
80.	-do-	24" dia. saw.	Robinson & Sons.	-	Pair	-do- 60"x30" x 30"
81	-do-	24" dia. saw.	--	-	Fair	-do- 54"x27" x 27"
82.	-do-	36" dia. saw.	--	-	Fair	-do- 70"x36"x36"
83.	Cir.saw sharpener	12"x3/8"x1" Bore Grinder	T.Sager & Co.	-	Fair	Belt Driven
84	Wood Lathe.		F.Berry & Sons.	-	Poor	-do-

" C O P Y "

			Shepherd & Hill.	"	Drill up to 2" dia.
M. 2	Vertical Pillar Drill	Table 2'-4" dia.	Unknown	"	Drill up to 1½ dia.
M. 3	Small Drill		"	"	Used for pinchilling.
M. 4	Planing Machine.	Travel 4 feet.	"	"	2'6" wide x 2'3" high.
M. 5	Shaping machine	14" Stroke.	Sandycroft	"	
M. 6	Slotting "	18" stroke	Unknown.	"	Face or slot 3'6" x 3'2" x 18"
M.7.	Screw Cutting machine	Tangential	Kendall and Gent	12-12-31	Screw bolts to 1.½" and pipes to 3"
M. 8	Milling Machine	Type 3 T Universal Miller.	J.Parkinson & Son Shipley.	25-6-34	Greatest distance centre of spindle to top of table 20" Longitudinal feed 36" crossfeed 12"

(INCORPORATED IN ENGLAND.)
Liability of Members limited.

Directorate of Ordnance Factories.

Survey Report No.

Particulars of Plant.

Appendix II to Form Mob. A.
Note: In the case of large works a separate page of this appendix to be used for each type of machine.

Index No.	Type of machine.	Capacity i.e., maximum size of job handled.	Maker's name.	Date of supply.	Condition vide sub-head 14	Remarks e.g state whether lathes are hollow spindle, give motions of milling machines, etc.
L. 1	Screw Cutting Lathe	23" dia. x 18 feet In gap 10 ft. dia.x 2'-6"	Unknown	Unknown		
L. 2	Screw cutting lathe	13" dia. x 20" feet In gap 3 ft. dia x 18"	"	"		
L. 3	Surfacing lathe	18" dia. x 14 feet In gap 3' -8" x 12"	"	"		
L.4	Screw cutting lathe	17" dia. x 13 feet In gap 2' -9" x 12"		"		
L. 5	Screw cutting lathe	15" dia. x 6 feet In gap.2' -10" x 12"	"	"		
L. 7	Screw cutting lathe	14" dia. x 3 feet.	"	"		
L.10	Screw cutting lathe	18" dia. x 4 feet.	"	1910		1" Hollow spindle.
L.11	Screw cutting lathe	14" dia. x 5 feet.	"	Unknown.		2" -do-
..12	Screw cutting lathe	20" dia. x 2 feet	Made in shop	1915		
..13	Turret Lathe	20" dia. x 6 feet.	Alfred Herbert Ltd	"nknown.		3½" Hollow spindle
L. 1	Radial Drill					

18.	Lathe sliding surfacing and screw cutting.	9.½" centres 10'-3" between centres	Sandycroft	-	Poor	Solid spindle.
20.	-do-	11" centres 8'-9" between centres	Sandycroft	-	Poor	Solid spindle all heared head.
21.	Gap Lathe sliding surfacing and screw cutting.	7.½" centres 5'-4" between centres	J.W.Carr	-	Fair	1¼" Hollow spindle.
22.	Lathe sliding surfacing and screw cutting.	7½" centres 6'-0" between centres	Smith and Coventry.	-	Fair	Solid spindle all geared head.
24.	Radial Drilling machine	3'- 6" Drilling arm.	--	-	Fair	
25.	Universal Milling machine	Longitudinal Feed 36" Transverse " 12" Vertical 18"				Complete with Universa vertical attachments.
28.	Sensitive Drilling machine	16" dia. table.	Jones Shipman	1920	Good	Solid spindlr 1½" to Drill 6" deep.
30.	Slotting machine.	9" stroke 30" dia. table.	Smithy & Coventry.	-	Fair	
31.	Rapid Power Hack saw.	18" Blade.	Albert Herbert	-	Fair	
32.	Lathe sliding & surfacing.	6" centres.	--		~~Poor~~	~~Solid spindle.~~
33.	Gap lathe sliding surfacing and screw cutting.	4" centres 1'-10" between centres	Brittannia	1922	Fair	3/8" Hollow spindle all geared head.
34.	-do-	6-½" centres 3'-0" between centres	Atlas	1926	Good	1-½" Hollow spindle all geared head.
35.	Screwing machine.	Bolts 3/8" to 1.½" and pipes up to 2"	Landis.	1938	Good	Landis 2" Single head pick of gears to give 7 spindle speeds.
-	Tool Grinder.	6" wheels.	Mine made	1940	Good	

C O P Y.

THE OORGAUM GOLD MINING COMPANY OF INDIA, LTD.
(INCORPORATED IN ENGLAND)

Directorate of Ordnance Factories.
Survey Report No.

Particulars of the plant.

Appendix II to form Sch.A.
Note:-In the case of large works a separate page ofthis appendix to be used for each type of machine.

Index No.	Type of machine.	Capacity i.e., maximum size of job handled.	Maker's name.	Date of supply.	Condition vide sub-head 14.	Remarks e.g. state whether lathes are hollow spindle, give motions of milling machines etc.
1	2	3	4	5	6	7
1	Gap lathe sliding surfacing and screw cutting.	10" centres 5'-5" between centres	Sandycroft.	-	Very poor rough work only.	Solid spindle all geared head.
2.	-do-	14" centres. 12' 2" between centres	Ibbatson	-	Fair	-do-
3.	-do-	10" centres 19' 3" between centres	Balling & Lawe	-	Fair	-do-
4.	Lathe sliding surfacing & screw cutting.	12" centres 12'-4" between centres	Sandycroft	-	Fair	-do-
5.	Horizontal Boring Machine	Maximum facing 24" dia.	H.W.Learno	1920	Good	
6.	Planning Machine	10'-6" Stroke 4' 2" between coloums 3'-6" Cross Rails.	John Strik	1920	Good	
8.	Gap Lathe Sliding surfacing and screw cutting.	10" centres 6'-8" between centres	Ruder	1920	Good	1.½" Hollow spindle all geared head.
9.	Slotting machine	19" stroke 36" dia. table.	Wm. Muir	1920	Good	
10.	Sensitive Drilling Machine	21" dia. table.	Corrona No.7A Alfred Herbert	1920	Good	Solid spindle 2" dia. to drill 8" deep.
11.	Radial Drilling machine	3' Drilling Arm.	Tullis	1920	Fair	
15.	Shaping machine	18" Stroke Travel 24"				

THE KOLAR GOLD FIELD ELECTRICITY DEPARTMENT.

Particulars of plant.

Appendix II to Form Mob.A.

Note:-In the case of large works a separate page of their appendix to be used for each type of machine.

Index No.	Type of Machine.	Capacity i.e., maximum size of job handled.	Maker's name.	Date of supply.	Condition vide sub-head 14	Remarks e.g state whether lathes are hollow spindle give motions of milling machines etc.
1	2	3	4	5	6	7
1	Centre Lathe (S.C.)	15" centres, work of 19" dia. x 8' 6" over saddle	S.W.Putnam Sons, Mass U.S.A.	About 30 years old	Inaccurate	2" Hollow spindle.
2.	-do-	6" centres, work of 8" dia. x 3' over saddle.	Tangye Ltd.,Birmingham		-do-	Solid spindle.
3.	-do-	6¼" centres, work of 8" dia. x 2'-6" over saddle	F.E.Reed Co., Mass, U.S.A.		-do-	-do-
4.	-do-	3.½" centres,Work of 3" dia. x 20" over saddle.	Drummond Bros Ltd., Guildford.	1925	-do-	-do-
5.	Semo Auto Capstan.	Centre 6.½" work of 7" x 1'-6" over saddle.	Alfred Herbert (India) Ltd., No.4	Dec. 1936	First class	2" Hollow spindle equipped for Chuck work.
6.	Shaping Machine	23" Stroke work 12" x 12" x 12"	Unknown.	About 30 years old	Very poor	
7.	Milling Machine.	Table 3' x 15"	Dickenson & Co., Keighley.		Inaccurate	Double horizontal traverse.
8.	Pillar Driller	Chuck to Table 3' Drills 1" holes.	Barnes & Co., Rockford U.S.A	About 1900	Very poor	
9.	Radial Driller	Chuck to table 27" Bed 3' x 2' 6"	Unknown	19..	-do-	
10.	Sensitive Driller	Drills ⅛ ½" Hole.	Maxwell Co., New York.	1920	-do-	
			Alfred Herbert	Dec.	Good con-	

The Oorgaum Gold Mining Company of India, Limited.
(Incorporated in England.)
Saw Mill.

Index Sk. No.	Type of machine.	Capacity i.e., maximum size of job handled.	Maker's name.	Date of supply.	Condition vide sub-head 14.	Remarks e.g. State whether lathes are hollow spindle, give motion of milling machine etc.
1.	Bandsaw.	1¼" x 17'-2"	Mine Made.	-	Good	
2.	-do-	6" x 41'-3"	T.Robinson & Son.	-	"	
3.	Circular saw.	3'-6" dia.	Ibbotson Brothers.	-	"	
4.	-do- small.	2'-6" dia.	Slack Sellers & Company.	-	"	
5.	Planning machine.	Blade 15¼" x 3¾"	A. Ransome & Co.	-	"	
6.	Sharpending machine.	-	-do-	-	"	

Oorgaum.
20th January 1941.

Sd/- G. Benn White.
Superintendent.

Sd/- J.V. Everitt
Chief Engineer.

C O P Y.

8. Radial Drilling Machines -	2	One 3'-10" and another 4' 3" radial distance
9. Vertical Milling Machines -	Nil.	
10. Horizontal " "	1	13" gap, 2' 9" travelling length.
11. Cylindrical, Multipurposes & Centreless grinding machines - Nil.		
12. Surface grinders -	Nil.	
13. Tool and Cutter Grinders -	3 Ordinary tool sharpening grinders.	
14. Slotting Machines -	1, 11" stroke, 18" trav. length, 1'-8" gap.	
15. Broaching machines -	Nil.	
16. Power Presses -	Nil.	
17. Stand Presses. -	Nil.	
18. Heat Treatment Furnaces, Electric, Gas & Oil Fired - Nil.		
19. Forging Machines -	Nil.	
20. Foundry Machines. -	Nil.	
21. Saw Mill machines. -	2 Loggin, logs up to 3.½" in dia. 24" stroke.	
22. Key seating machines -	Nil.	
23. Automatics -	Nil.	
24. Screwing Machines, Bolts & Pipes -	3 - ¼" to 2.½" dia. pipes & 1.½" to 1¼" dia. bolts.	
25. Blowers. -	3 Roots Blacksmiths Blowers.	
26. Compressors -	Nil.	
27. Bar Reeling machines -	Nil.	

C O P Y.

THE MYSORE GOLD MINING COMPANY LTD.
DETAILS OF MACHINE TOOLS HELD.

ITEM.

1. Lathes, Sliding, surfacing & Screw cutting. 16 all screw-cutting.

	Capacity i.e., maximum size handled.	Length between centres.	Dimension of hollow spindle.	Dimension of Gap.
Lathe.	8.¾" centres	4'-10"	1.⅜"	13.½"
"	8.½" "	6'-3"	No.	14"
"	12.½" "	13'-2"	No.	16"
"	8.¾" "	4'-8"	1.½"	No.
"	6.½" "	3'-8"	No.	10.½"
"	9" "	4'-8"	1.½"	No.
"	12" "	12'-2"	No.	18"
"	8" "	8'-5"	2"	12"
"	14" "	12'-6"	No.	13-½"
"	14" "	21'-8"	No.	Upto 7 ft.
"	7.¾" "	2'-9"	No.	10"
"	7.½" "	3'-2"	No.	10"
"	7.½" "	3'-5"	No.	9"
"	6" "	4'-10"	1"	7"
"	6" "	3'-3"	No.	8.½"
"	7" "	3'-3"	1.¾"	11"

2. Lathes, Caputan, Turret etc. 1 Turret, 12" " 4'-2" 4" No.

3. Shaping Machines - 3.
20" stroke, 5'-9" travelling length
14" " 13" " "
10" " 18" " "

4. Horizontal Boring & Turning Mills - 1 Universal, 4'-3" Length between centres.

5. Vertical " " " - Nil.

6. Planning Machines including open side - 2 (open side Mil)
Stroke 4'-0" 24" trav. length
" 5'-0" 30" " "

7. Drilling Machines (other than Radial) 2 One 18" length between centres.
one 11" -do-

Sl. No.	Name and address of Factory possessing Machine Tools.	Lathes, sliding, surfacing and screw cutting.	Lathes, capstain, turret, Etc.	Shaping Machines.	Vertical Boring and Turning Mills.	Horizontal Boring and Turning ".	Planing Machines including open side.	Drilling Machines other than radial	Radial Drilling Machines.	Vertical Milling Machines.	Horizontal Milling Machines
		1	2	3	4	5	6	7	8	9	10
1.	The Bangalore Woollen Cotton & Silk Mills Co., Ltd., Bangalore.	18	-	2	-	-	1	4	3	-	1
2.	The Central Industrial Workshop, Bangalore.	13	1 (under repairs)	3 (One Not in working Order)	-	1 (small)	2	3	2	-	1 (Unive
3.	The Steel Construction Co., Ltd., Hardinge Road, Shankarapuram, Basavangudi P.O., Bangalore.	5	-	2	-	-	1	2	-	1	3
4.	The Globe Iron Foundary, Magadi Road, Bangalore.	3	1 wheel turning lathe not in service.	1	-	-	1	2	-	-	-
5.	Messrs. Shanmugam & Sons., Engineering works and repair workshop, Kalasipalyam, B'lore City.	Particulars not received.									
6.	The Government Electric Factory, Mysore Road.	Particulars separately (vide list attach									
7.	Messrs. P.M.Mudharai Mudaliar, & Sons., Iron Foundary, Cottonpet.	Particulars not received.									
8.	Messrs. Eswara Iron Foundary, near City Railway Station.	—	-	-	-	-	-	-	-	-	-
9.	Messrs.Khoday Engineering Works, near City Railway Station.	5	-	1	-	-	1	2	-	-	-
10.	Messrs.ORR and EMM Textile Engineering, Cottonpet, B'lore City.	2	1	2	-	-	-	2	1	—	-
11.	Sri Krishna Engineering Works, B'lore.	Particulars not received.									
12.	The Mysore Metal Industries, Ltd., Mgm Magadi Road.	-do-									
13.	The Mysore Glass & Enamel Works, Ltd., Yelhanka.	-do-									

1	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
-	1	-	1	-	-	-	-	-	-	1	-	-	1	2	2	-		multipurpose and centreless
-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Surface grinders.
-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Tool and Cutter Grinders.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		sloting Machines.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Broaching Machines.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Power Presses.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Stand Presses.
-	2	1 (anneal- ing fur- nace for cast iron articles not in commission)	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Heat Treatment, Furnaces, Electric, Gas, Oil fired.
-	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-		Forging Machines.
-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-		Foundary Machines.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Saw Mill Machines.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Key seating Machines.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Automatics.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Screwing Machines, Bolts and pipes.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Blowers.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Compressors.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Bar Rolling Machines.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		Miscellaneous.

Sl. No.	Name and address of Factory possessing Machine tools.	1	2	3	4	5	6	7	8	9	10	11	12
14	Jubilee Saw Mills, Cottonpet, Bangalore City.	-	-	-	-	-	-	-	-	-	-	-	-
15	Annapurna Cooker Co., Basavangudi.	4	-	-	-	-	-	2	-	-	-	-	-
16	Sattarkhan's Workshop, Narasimharaja Road.												
17	Normal & Training Institute, & Workshop, Kolar.	2	-	-	-	-	1	2	-	-	-	1	1
18	John Taylor & Sons, Gold Mining Co., Ltd.,				1 14"								
19.	The Mysore Sugar Co., Ltd., Mandya.	-	4 Lathes	1(24" all geared lathe 1(11" -do-) 1(9" -do-) 1(6 " -do-)	stroke		1	-	2 (one 4" & 2 other 3" long arm)	-	-	-	-
20.	The Mysore Iron & Steel Works.	Particulars separately furnished. (Vide Statemer											
21.	B.M.Engineering Works, Brass and Iron Founders, Chickmagalur	5	-	-	-	-	-	2	-	-	-	-	-
22	* Sri Amuteswara Saw and Rice Mills, Tarikere.	-	-	-	-	-	-	-	-	-	-	-	-
23	Methodist Mission Workshop and Industrial School, Tumkur.	3 wood turning lathes	-	One spindle moulding Machine.	-	-	1	-	-	-	-	1	-
24.	Sri Basaveswara Saw Mills, Tarikere.	-	-	-	-	-	-	-	-	-	-	-	-
25	Sri Chamarajendra Technical Institute, Mysore.	7 (5 not in good working order)	-	1 of 10" stroke	-	-	-	2 (not in good working order).	-	-	-	1 tool grinder	-
26	Government Saw Mills, Shimoga	-	-	-	-	-	-	-	-	-	-	-	-
27	The Sarvamanya Saw Mills & Wood Works, Mysore South.	-	-	-	-	-	-	-	-	-	-	-	-
28	Siddalingeswara Samy Saw Mills & Wood Works, Mysore.	-	-	-	-	-	-	-	-	-	-	-	-
29	The District Industrial Workshop, Shimoga.	2	-	1	-	-	-	1	1	-	-	-	-
30	M/s John Taylor & Sons, Mining Company, K.G.F.	Details not yet received.											
31	Mysore Railway Workshop	Details not yet received.											

13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
-	-	-	-	-	-	-	-	Saw Mills	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
-	1	-	-	-	-	-	-	3	-	-	-	-	-	-	- One Metal Bar Cutter One Metal Punch.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2 -(One Compound air Compressor Belt driven Air Cylinders and 1 single Cylinder air compounder).

II).

2	-	-	-	-	1	-	2 Metal melting Furnace & Oxy-Acetylene Welding plant)	-		1	1	1	--		
-	-	-	-	-	-	-	-	1 2 Frames & 1 Bench.	-	-	-	-	-		
-	-	-	-	-	-	-	-	5 One Horizontal Log Sawing Machine. One B and Saw One Cir. Saw. One Cross Cuttingsaw. One Front Saw with boring attachment.							One Chain mortising machine and one Gulleting machine.
-	-	-	-	-	-	-	-	inverti- cal saw frame & 1 saw bench.	-	-	-	-	-		
-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	
(1 small circular saw Bench, One Bard saw and One Horizontal power Sewing Machines)															
-	-	-	-	-	-	-	-	- Circular-	-	-	-	-	-	-	
saws 36" by 1½" Frame saws 5' 3½" cross cutting hand saws.															
-	-	-	-	-	-	-	-	One vertical frame	-	-	-				
saw mill, one circular saw bench, One Electric casing machine, one Electric wood turning head stock.															
-	-	-	-	-	-	-	-	1 vertical saw mill 2 Circular saw Mill.	-	-					
1	-	-	-	-	-	-	-	-	-	ft	1	1	-	-	-

THE MYSORE IRON AND STEEL WORKS.

DETAILS OF MACHINERY IN THE MACHINE SHOP OF THE MYSORE IRON AND STEEL WORKS, BHADRAVATI.

Sl.No.	Type of machine.	Manufacturers.	Brief Description.	Remarks.
1.	Lathes, Sliding, Surfacing and screw cutting.	Denham, England.	Distance between centres - 96" Length of bed - 105" Medium work, Motor H.P. 5. Height of the centrex to the bed 10/1/2".	Ordinary work.
2.	-do-	Clark's Machine tool company, Albion Works England.	Length of bed - 54". Distance between centres - 44". Motor H.P.1. Height of the centre to the bed - 6 6"	Small lathe.
3.	-do-	-do-	Length of bed -138" Swing on saddle - 27". Distance between centres - 10'- 8". Motor H.P.5.	
4.	-do-	Monarch Machine, Company, U.S.A.	Length of bed - 55". Swing on saddle 11". Distance between centres - 49"	Medium lathe
6.	-do-	Dean Smith Grace Company, England.	Length of bed 59". Swing on saddle - 10½". Distance between centres 43". Motor H.P.5.	Bought second-hand.
7.	-do-	The Hendey Manufacturing Co., Torrington, U.S.A.	Length of bed 92". Swing on saddle 9". Distance between centres 71". Motor H.P.7	Small work.
8.	-do-	Kranse Company, Berlin.	Length of bed - 54". Swing on saddle ½". Distance between centres - 40" Mtor H.P.1.2	Small lathe.
9.	-do-	The Birmingham Foundry & Co., U.S.A.	Length of bed -108". Swing on saddle 15". Distance between centres -41". Motor H.P.7.5	hand.
10.	-do-	The Rahu Larmon Co., Cincinati, U.S.A.	Length of Bed -48". Swing on saddle 9". Distance between centres 68". Motor H.P.10.	For geheral use.
		Wardhaven & Smith	[illegible] of centres to the bed[illegible] Distance	

			between centres - 15"	
2.	-do-	Betters - Bridleford Rochester, N.Y., U.S.A.	Length of bed -16'-6". Distance between centres - 13' 8½". Height of the centre to the bed 18". Motor H.P.25.	Gears require replacement.
3.	-do-	Smith Convertrary & Co. Manchester, England.	Length of bed -30'. Distance between centres - 23'-6". Height of the centre to the bed -26½". Motor H.P.10	
4.	-do-	Bangalore Industrial Workshop.	Length of bed -42". Swing on saddle - 13". Motor H.P.10.	
5.	Lathe, sliding, surfacing and Boring without screw-cutting.		Length of bed -34". Swing without saddle -27". Motor H.P.10.	Bought as scrap.
6.	-do-	D.New & Co., Makers Nottingham.	Swing of the saddle -28" length of bed 123". Length of bed 10' -3".	Bought second hand. (Very slow work.)
17.	-do-	John Lang & Sons. Ltd. Johnstone.	Length of bed 66". Swing on saddle 39" Distance between centres 41".	Bought second hand, Bombay.
18.	Shaping Machines.	The Rakelly Co., Xenia O. U.S.A.	Stroke -0" to 20". Bed level 24". Motor H.P.10.	Bought second hand.
19.	Shaping Machine.	Herules Macline Tools, England.	Stroke -14". Maximum Stroke-2". Monimum Motor H.P.10.	Medium work.
20.	-do-	Niles Bement Works, Philedolphia.	Stroke - 22". Maximum. Stroke 2" minimum. Motor H.P.10.	Small size work only.
21.	Verticle Boring and Turning Mill.	Webster & Bement Co., Ltd. Coventry, England.	Stroke -24". Cross rail level 26" & 18" Motor H.P.10.	Second hand, Bombay.
22.	Horizontal Boring and Turning Mills.	D & J Tullis Ltd., Clyde Band	Length of bed -5'. Width -3'. Motor H.P.5.	Second hand rough drilling
23.	-do-	William Muir & Co., Ltd. Manchester, England.	Length of bed 63". Distance between swindle centre and cross table - 40". Motor H.P.5.	Second hand slow work.
24.	Planning Machines.	The Liberty Tool Machine Co. Hamilton	Length of bed -10'-9" and width -20". Motor H.P.5.	Require complete over haul (small work.)

38. Compressors.	Ingersoll-Consolidated Pneumatic Tool Company.	Motor H.P.30	
40. Bar and Plate Rolling Machine.	Graig & Donald, Ltd., Johnstone Scotland.	Capacity 9' - 5/8". Motor Plate Motor H.P. 15..	Requires heavy repairs.

C O P Y.

25. Planning Machine with open side.	White Machine Tool Co., Ltd., Ha ifox, England.	Length of bed -17'-6". Width 3'-10". Motor H.P.25	Open sided Heavy work.
26. Drilling Machines.	Carona, England.	Capcacity 1/32" to 1¼". Table dia. 18". Motor H.P.5.	Second hand Rough work.
27. -do-	Fairbanks Co., U.S.A.	Capacity - 1/32" to 1¼". Table dia. 18". Motor H.P.5	Not fit for accurate work.
28. Drilling Machine	-do-	Capacity - 1/32" to 1½" Table dia. 18". Motor H.P.3	Small. Not accurate.
29. Radiel Drilling machine.	Sheppard Hill & Co., Leeds	Capacity Maximum 3". Minimum ¼". Motor H.P.5	Second hand.Very rough work.
30. -do-	Beruk and Comens, Anvers.	Capacity -1/4" to 3". Motor H.P. 7.5	General work.
31. Horizontal Milling Machines.	Robson Universal Miller 2 A.	Bed travel 18". Crosswise. Bed Travel 24". Motor H.P.5	Second hand.
32. -do-	Led Blond No.2 Heavy Duty Miller, U.S.A.	Length of bed travel 18". Motor H.P. 5	For work yp to 18" only.
33. Slotting Machines.	The Dean Smith & Grace Tool Makers, Keighley, Yorks, England.	Max. Stroke 10". Table dia. 41". Motor H.P.10	Second hand. Rough work.
34. -do-		Stroke. Table dia. 31" Motor H.P.10	-do-
35. Power Press.	Niles Bement Pond Co., Hamilton, Ohio.	Capacity Tons on 9" ram 200 tons Motor H.P.3	Gencral use.
36. Stand Press.	Atlas Compound Hand Press Co. Kalazoomien U.S.A.		Second hand for
37. Screwing Machines Bolts & Pipes.	William Tool Co., Eriepansa.	Max. Capacity 4". Minimum ½". Motor H.P. 10	Particularly useless.
		Dia. 10 x 8 . Motor H.P.25	

7.	Gear Hobbing Machine. with 3 H.P. motor working bed dia. 2 ft. cutter slide movement 12" vertically, transverse movement of the working bed 21" and longtitudial movement of the cutter slide 4".	Second-hand working satisfactorily.	-do-	-do-	Tight ...
8.	Horizontal Milling Machine with 3 H.P. motor, working bed 43" x 12", transverse movement of the bed 7½", horizontal movement of the bed 30" and vertical movement of the bed 18"	-do-	-do-	-do-	-do-
9.	Vertical Milling Machine with 3 H.P. motor, working bed 40" x 12" transverse movement of the working bed 11" horizontal movement of the working bed 32", vertical movement of the working bed 14" side vertical movement of the	Second hand- used only for facing, boring and drilling.	-do-	-do-	-do-
10.	Radial Drilling Machine. With 3 H.P. Motor. Working bed 20" x 20" vertical movement of the spindle 10" and horizantal movement of the spindle slide 2 ft.	Purchased now working in good condition	-do-	Accurate work.	-do-
11.	Universal Grinding Machine. With 5 H.P. motor. Working bed 61" x 8" Horizontal movement 54" Transverse grinding stone slide moveing 12"	Second-hand working satisfactorily.	-do-	Accurate	Occasion.
12.	Lathe No.1 with 2 H.P. motor. Working bed 42" x 10¾", Swing radius 8", owing of the gap 13" and length between centres 21"	Most inaccurate No change wheels are available. New bearing are required.	-do-	Rough work.	Tight work.
13.	Lathe No.2 with 3 H.P.Motor:- Working bed 95" x 9½", Swing radius 7½" and between centres 77"	Second hand. Requires slight alteration for accurate work.	-do-	-do-	-do-
14.	Lathe No.3 with 3 H.P. Motor.- Working bed 56" x 14", Swing radius and between centres 36"	Second hand- Working satisfactorily.	-do-	Moderate and plain work - no facility for change wheels. No tail stock.	-do-

	tangant of the Pillar to the centre of the bed 10"				
26. Table Vices. 4 Jaws. .. 6 Ps. 5 " .. 2 " 7 " .. 1 Ps.	Working satisfactorily	In use	No.		Tight work.
27. Marking Table( )Made in Germany) Size 12' x 6' x 2½'	Purchased new	No.	O.K.		
28. Marking Table:- (G.E.F.make) Size 8½' x 3½' x 6" mounted on 3 Pillars, Height 3½'	Working satisfactorily.	In use			Tight work.
29. Cupola capacity 1 Ton:- With centrifugal fan type blower run by 7 H.P. Motor.	Second-hand- Working satisfactorily.	-do-			-do-
30. Two Cupolas under erection, capacity 1½ tons each, without blower and motor.					

C O P Y.

1	2	3	4	5	6
15. Latho No. 4 1th 5 H.P. Motor.- Working bod 72" x 12" Swing Radius 8", Botwoon contros 58" (motric oyotem.)	Second-hand working satisfactorily.	In use.	Satisfactory.	Tight work.	
16. Lathe No.5 with 2 H.P. motor.-Working bed, 84" x 15", Swing Radius 8" and botwoen centres 61"	-do-	-do-	Medium.	-o-	
17. Lathe No.6 with 2 H.P. Motor:- Working bed 72" x 15", Swing 8" radius and between centres 54"	-do-	-do-	-do-	-do-	
18. Lathe No.7 with 2 H.P. Motor:- Working bed 83" x 15", Swing 8" radius and between centres 63"	Second-hand. No change wheels.	-do-	Rough work.	-do-	
19. Lathe No.8 with 2 H.P. Motor:- Working bed. 42" x 12", Swing Radius 7" and between centres 28"	Purchased new. In good condition.	-do-	Tiny work in accurate.	-do-	
20. Lathe No.9 with 2 H.P.Motor:- Working bed 72" x 15", Swing Radius 8" and between centres 54"	Second-hand. Working satisfactorily	-do-	Medium	-do-	
21. Lathe No.10 with 5 H.P.Motor:- With geared head stock- Working bed 96" x 20", Swing 11" radius and between centres 70"	Second-hand in good condition.	-do-	Satisfactory	-do-	
22. Lathe No.11 with 3 H.P.Motor:- Working bed 57" x 12" Swing 8½" Radius and between centres 36"	In good condition	-do-	For accurate work.	-do-	
23. Lathe No.12 with 3 H.P.Motor:-Working bed 96" x 15½, Swing 10" radius and between centres 74"	Second-hand in good condition.	-do-	-do-	-do-	
24. Small Planning Machine, with 5 H.P.Motor:- Stroke length 60" Working bed 72" x 21" Horizontal movement of the tool holder 21' and vertical movement 24"	Second-hand used for rough work.	-do-	Inaccurate.	-do-	
25. Pilles Drilling Machine with 2 H.P.Motor:- Vertical movement of the spindle, Radius of the working bed 8 3/16", Vertical move-	Second-hand only for very rough	In use for rough work	No.	Occasional work.	

3. Match Makers' Capstan L...					be spared from this section.
4. Taping Machine.	Slight attachment required.	..	...	...	
5. Pivot Burnishing Machine.	Good	In Use.	Fit	Light work.	
6. Cutter Grinding machine.	"	"	"	"	
7. Gear Hobbing Machine.	"	"		"	
8. Milling and Drilling machine	"	"		"	
9. High Speed Drilling Machine	"	"	"	"	
10. Drilling Machine (Flott)	"	"	"	"	
11. Drilling Machine (Tauco)	"	"	"	"	
12. Bench Lathe 4" x 12"	Average.	"	Not fit.	Tight work.	
13. -do- 2" x 4"	"	"	"	"	

TOOL MAKING SECTION.

1. Lathes. (a) Swing 14" Bed 4 ft.	Good	In use	Precision work.	Tight work.	No machine can be spared from this section
(b) 15" 4 ft.	Good	In use			
(c) 14" 4 ft.	Good	In use			
(d) 15" 3½'	Good	In use			
(e) 16" 4½'	Good	In use			
(f) 9" 3"	Fair	In use	small rough work		
2. Combined Filling and Sawing Machine (Thiels 16)	Good		Precision work.	Light work.	
3. Vilt Pederson Heady duty Milling machine	"	-do-	-do-	Tight work	
4. Torpan Shaping Machine.	Fair	-do-	Rough work.	-do-	
5. Jhones and Shipman 1" Drilling machine	Good	-do-	Precision work	-do-	
6. Aurbach Drilling Machine	Fair	-do-	All right for general work.	-do-	

GOVERNMENT ELECTRIC FACTORY.

FORGING SECTION.

No.	Specification.	Condition of machine	In use or not	Whether fit for precision work.	Whether light occasional or tight work.	Remarks
1.	Greenwood & Batley Big Forging Machine	Not satisfactory.	In use	Not for precision work.	Tight work.	Cannot be spared
2.	-do- small -do-					
3.	Threading machine.	Fair	-do-	"	-do-	
4.	Drilling machine	Requires repair	Not in use	"	--	
5.	Nuts Taping machine	Fair	-do-	"	--	-do-
6.	Bolts Screwing machine	Bad	In use	"	Light work	-do-
7.	Big Friction Press.	Good	In use.	yes	very light work	-do-
8.	Peter Piltington Patent Pneumated Power Hammer.	Fair	-do-	Useful for rough work.	Tight work.	-do-
9.	Punching & Shearing Machine (similar to one in C.I.W.)	Good	Not in use	Can be used for structural work	Not used.	
10.	Two pipe threading machine.	Requires heavy repair.	"	Not fit for precision work.	-do-	

INSTRUMENT SECTION.

1.	Lathe 2'x 4" - No screw cutting attachment provided with motor.	Good	In use	...	Light work.	Cannot be spared.

GENERAL SERVICE.

2.	Centrifugal Pump with a 3 H.P. motor - can develop about 40 ft. head.	This set is used for pumping water for the use of General service.

Meter Section.

1. Drilling Machine, 2 H.P. Motor 1¼" capacity	Not very accurate	In use	Not fit for	Engaged for struc-	
2. Small Grinding Machine 12" wheel. 1 H.P. motor (made in the workshop)	Good	Used	...	Tight work.	
3. Big Grinding Machine 16" grinding stone with motor (locally built)	"	"	...	do.	
4. Drilling Machine ½" size with motor, motor provided.	"	In use	Fit for work	Light work	Cannot be spared.
5. Spinning Lathe, 6' x 18" - no motor attachment.	Out of order	"	...	...	Requires repair.
6. Capstan Lathe 6" x 4'	Good	Used	Not fit for precision work	Tight work	
7. Southbend Lathe 3' x 8"	Good	"	Fit for precision work.	do.	
8. Lathe. 6' x 12"	Average	"	Not fit	For all minor works.	
9. Lathe. 5' x 12"	Only used for surfacing.	No screw cutting attachment			Change wheels are not available
10. Electric Motors. 2 in number. A.E.G. 1 H.P. each.	These are in good condition but not used.				

METAL PRESSING SECTION.

1. Esaky Press.	Good	In use	Yes	Tight work	Cannot be spared.
2. Tauco Table Drilling Machine	"	"	"	Light work	-do-
3. Sheet cutting machine.	"	"	"	Tight work.	-do-
4. Hand Screw Presses.	7 Good order 3-Gun Metal bushing to be replaced 2-Base Cracked	In use Not in use	Not precision work.	-do-	

GOVERNMENT ELECTRICKE DEPARTMENT.
Tool Making Section (contd.)

7. Portable Flexable Grinder with Motor attachment.	Good	In Use.	Satisfactory working	Tight work.	No machinery can be spared from this section.
8. Overhead Flexable Drive.	Good	do.		-do-	
9. 50 Ton Press.	Good	do.		Trial purposes.	
10. Pekel Engraving Machine, Cutter, Grinders	Good	do	Precision work.	(Occasional) tight work.	
11. Pekel Tool Milling Machine, Universal Type	Good	do.	-do-		
12. Screw Press.	Fair	do.	Trial purposes only not very accurate.	Light work.	

CARPENTRY SECTION.

1. Drilling Machine "Tauco" 0.6 BHP. Brown Boveri Motor.	Good	do.	Fit	Light	
2. Drilling Machine, Walker. Turner Co., with G.L.Moto	"	"	"	"	
3. Fretsaw Machine 'Dita' with ½ H.P.Motor	"	"	"	"	
4. Brandsaw Machine, 'Delta' with motor.	"	"	"	"	
5. Wood turning Lathes, two in number with motors.	"	"	"	Tight	1 to 8 cannot be spared.
6. Circular Saw Machine made at G.E.F. with motor.	"	"	"	Light	
7. Planning Machine 6" capacity with "Delta" motor.	"	"	"	"	
8. Circular Saw Machine "Delta" with motor	"	"	"	"	
9. Electric Motor, Crompton 1/3 H.P. (Removed from Grinding machine.)	"	"	"		

SCREWING MAKING SECTION.

Government Electric Factory.
Meter Section (Contd.)

No.	Machinery with general specification.	Condition of machine.	In use or not	Whether fit for precision work.	Whether light occasional or tight work.	Remarks.
12.	Bench Lathe - South Bed - 4' x 9'	Good	In use	Fit	Tight work	
13.	Lathe "Rivet" 2½" x 9"	"	"	"	-do-	
14.	Lathe 3½' x 12" (screw cutting etc.)	"	"	"	-do-	
15.	Capstan Lathe.	"	"	"	-do-	
16.	Hand Lathe.	"	Not in use	"	-do-	No machine can be spares from this section.
17.	Grinding Machine (locally made) for tool grinding etc.	"	Used	Fit		
18.	Screw Press.	Average.	In use.	Not fit	Light.	
19.	Watch makers' Milling Machine	Requires repairs.	Not in use			
20.	-do- Hand Dividing machine	"	"			

Supplemental list showing the names and addresses of factories possessing machine tools.

Name and address of factory	Particulars of machine tools in their possession.
1.The Mysore Glass & Enamel Works, Ltd., near Yeswantpur Railway Station Bangalore.	(1) One Lathe, sliding, surfacing and screw cutting. 5' size. 8½" below centre. Gap.6" (2) One Lathe -do- 4' size, 8½" below centre with 7" gap. (3) One Lathe -do- 3', 5½" below centre, 6" slide surface. (4) One Shaping machine 12" stroke, vertical 2' slide, horizontal 1¼' slide. (5) One power Fair Blower 12" dia. 2" delivery (6) One Hacksaw machine 12" size. (7) One Power Drilling machine 1¼" dia. hole capacity 7" deep. Distance from centre to column 10".
2.Messrs.Madurai Mudaliar and Sons, Iron Founders, Bangalore City.	(1) 5 Lathes, sliding, surfacing, screw-cutting. (2) One Lathe plain having fitting for taper forming. (3) One Lathe plain. (4) One twelve-inch stroke double head shaping machine. (5) One ten-inch vertical boring and shaft keyway cutting machine. (6) One Planning machine 6'x2½'x2½' with two heads at top and 2 at sides. (7) One universal No.4 Horizontal Milling machine combined with 3 H.P. motor. (8) Two small tool grinders. (9) One small Universal cutter grinder combined with motor. (10) One Slotting machine of 11" stroke. (11) One Iron saw to cut up to 4". (12) One handscrew machine up to 1" (13) One 4" blower for Smithy work. (14) One 8" Roots-blower combined with 10 h.p. motor for cupola. (15) One three-inch slide radial drilling machine 4½' radius. (16) One Pillar vertical drilling machine. (17) One " light type " up to 3/8".

	(18) One plain sheet bening machine.
	(19) One corrugated sheet being machine.
	(20) One gas welding plant.
3.The Government Power and Light Workshop, Mysore.	(1) 2 Lathes sliding, surface and screw cutting.
	(2) 1 planing machine.
	(3) 3 Radial Drilling machines.
	(4) 1 hand drilling machines.
	(5) 1 screwing machine.
	(6) 1 Blower - centrifugal.
	(7) 1 Forge Portable.
	(8) 1 Punching, Angle Iron Cutting and shearing machine.
4.Messrs.Sadasiva Saw Mills and Wood Works, Bamboo Bazaar, Mysore.	(1) 1 Frame saw.
	(2) 1 vertical saw.
	(3) 1 bench.
	(4) 1 Emery Grinder.
5.The Coorg Industries and Saw Mills, Mysore South	(1) 2 vertical sawing machines.
	(2) 2 saw benches.
	(3) 1 grinding machine.
	(4) 1 planing machine.
	(5) 1 curve cutting machine.
6.The Mysore Engineering Works, Iron and Brass Founders, Hassan.	(1) 6 Lathes, sliding, surfacing and screw-cutting.
	(2) 1 shaping machine.
	(3) 1 ordinary lathe.
	(4) 1 planing machine.
	(5) 3 ordinary drilling machines.
	(6) 1 horizontal milling machine.
	(7) 1 grinding machine.
	(8) 1 punching and shearing machine.
7.Sri Satyaranaya Engineering Works, Hassan.	(1) 2 Screw cutting lathes. (2) 1 Drilling machine (other than radial) (3) 1 Emery grinder. (4) 1 (H.P.) Forging machine. (5) 1 Fan.

8.Mr.Rajenhalli Hanumantha Rao, Ginning Factory,Banavar.	(1) 1 Drilling machine (other than radial) (2) 1 Forging machine (H.P.)
9.The Government Implements Factory,Hassan.	(1) 1 screw cutting lathe. (2) 1 (H.P.) drilling machine (other than radial) (3) 3 screw presses (H.P.) (4) 1 Gig saw. (5) 1 Wood turning lathe. (6) 1 circular saw. (7) 3 Pneumatic hammers. (8) 5 Machine hammers. (9) 2 blowers. (10) 1 sheet rolling machine (H.P.) (11) 4 polishing heads. (12) 1 combined punching. (13) 2 punching machines. (14) 1 Electro-plating set.
10.Messrs.Abdur Saffor & Sons, Chennarayapatna.	(1) 1 sliding lathe. (2) 2 screw cutting lathe. (3) 2 shafting machines. (4) 1 planing machine. (5) 1 Forging machine (worked by bellow).
11.Messrs.Appaji Rao & Grandson, Furniture Manufactures, Shimoga.	(1) 1 saw bench. (2) 1 saw grinding machine. (3) 1 wood planing machine.
12.Mr.J.Manickyam Pillai,Workshop, Shimoga.	(1) 3 Lathes, sliding, surfacing and screw cutting. (2) 1 planing machine including open slide. (3) 1 drilling machine. (4) 1 surface grinder. (5) 1 forging machine.
13.Doss Mechanical Industrial Workshop, Shimoga.	(1) 2 Lathes 16' x 2½" and 6' x 6". (2) 2 Drilling machines. (3) 1 Tool and cutter grinder. (4) 3 saw mill machines. (5) 2 Blowers. (6) 2 Automatics.

GOVERNMENT ELECTRIC FACTORY.

LIST OF MACHINERY IN ELECTRIC TRANSFORMER SECTION.

Sl.No.	Name of Machinery.	Quantity	Remarks.
1.	Frequency changer set.	1	
2.	Testing Transformer	1	
3.	"Micafil' L.T. Winding Machine.	2	Without Tensioning device.
4.	"Chapman" Winding machine for H.T. Coils of 3 phase Transformers	2	
5.	Small Coil Winding Machine (automatic)	1	
6.	M.A.X.E. Coil Winding Machines (bag)	3	
7.	-do- -do- (small)	1	
8.	Coil lowering press.	2	
9.	Impregnation Chambers (small)	2	One is under repair.
10.	-do- (big, Autoclave)	1	
11.	Hack Saw Machine "Rapidor"	1	
12.	Drilling Machine.	1	
13.	Grinding Machine	2	
14.	Portable Grinding Machine.	2	
15.	Avery Weighing Machine 2 cwt.	1	
16.	Arc Welding Sets.	2	One portable and the other not erected.
17.	Scroll Saw Machine.	1	
18.	Spray Painting Machine.	1	
19.	Small Drilling Machine.	1	
20.	Transil oil Filter Press.	1	
21.	Tube making machine	1	
22.	Round coils taping machine.	1	
23.	Pipe Bending machine.	1	
24.	Marking table.	1	
25.	Machine for winding and straightening armature coils.	1	
26.	Machine process heated and cooled with accessories.	1	
27.	"Matrindale" spring winding machine.	1	
28.	Automatic Numbering machine.	1	

C O P Y.

GOVERNMENT ELECTRIC FACTORY.
LIST OF MACHINERY IN THE ELECTRO-PLATING SECTION.

Sl. No.	Name of machiner.	Quantity.	Remarks.
1.	Generator. H.P. 25. V. 220	1 piece.	
2.	Barrells	2 pieces.	
3.	Polishing lathes.	3 pieces.	

List of machinery in production Control and Packing Sections.

1.	Card board pinning machine.	one
2.	Heavy duty bending press.	one
3.	Hand press (Screw press.)	one
4.	2 cwt.Avery Balance in Purchase Department.	one

List of Machinery in the Bakelite Section.

1.	35 tons capacity Moulding press	4
2.	50 tons capacity Moulding press.	7
3.	15 tons capacity Moulding press.	5
4.	75 tons capacity Moulding press.	2
5.	Screw hand press.	2
6.	Device for taking out the bend of articles.	3
7.	1 cwt. Avery balance.	1
8.	Tabletting machine.	1
9.	Grinding machine.	3
10.	Polishing machine.	4
11.	Injection moulding machine.	1
12.	Tapping device.	2
13.	Tauco Drilling machine.	1

C O P Y.

NUNDYDROOG MINES LIMITED.
MACHINE TOOLS IN WORKSHOPS.
FITTING SHOP.

Index No.	Type Machine.	Capacity i.e., maximum size of job handled	Maker's name.	Date of supply.	Condition.	Remarks. e.g. state whether lathes are hollow spindle, give motions of milling machines etc.
1	2	3	4	5	6	7
1.	Centre Lathe.	12" centres 8'-0" between centres	Dean,Smith & Grace.	1911	Good	Solid Spindle, All geared Head Unit Motor drive. Re-conditioned.
2.	-do-	-do-	-do-	1911	Fair	-do-
3.	-do-	13½" centres 8'-8" between centres	Binns & Berry	1938	Good	Hollow Spindle, 4" Hole, All ghared Head, Unit Mdr drive.
4.	-do-	16½" centres 17' between centres	Broadbent	1935	"	Solid spindle, Unit Motor drive, All geared Head, Swings 14' in Gap.
5.	-do-	13" centres 18' between centres	--	--	Poor	Cone Driven, Solid spindle being reconditioned.
6.	-do-	7" centres. 3' between centres.	--	--	Fair	-do-
7.	-do-	13" centres 15' between centres	--	--	Poor	-do-
8.	-do-	11½" centres 16' between centres	--	--	Poor	-do-
9.	-do-	8½" centres 7' between centres	Binns & Berry	--	Fair	Cone driven, Hollow spindle 2" hole.
10.	-do-	7" centres 4' between centres	Southbend	--	Fair	Hollow spindle 1" hole.
11	-do-	6½" centres 3'-6" between centres	Alfred Herbert	1938	Good	Hollow spindle 1½" hole.

		4'-0" between centres				
13.	-do-	7" centres 3'-6" between centres	--	--	Poor	-do-
14.	-do-	6" centres 8'-0" between centres	Alfred Herbert	1938	Good	Hollow spindle, 2" hole.
15.	-do-	7" centres 3'-0" between centres	Darling & Sellers	--	Good	Hollow spindle, 2½" hole reconditioned.
16.	-do-	-do-	-do-	--	Good	-do-
16.A.	-do-	-do-	-do-	--	Good	-do-
17.	Universal Miller	18" Lingitudinal feed, 10" Transverse feed, 18½" Vertical feed.	Parkson	1934	Good	Complete with Universal Vertical Attachment.
18.	-do-	28" Lingitudinal feed 8½" Traverse feed 19" vertical feed	Brown & Sharpe	1938	Good	
19.	Planer	6' Stroke, 30" between columns, 28" under Cross Rails.	--	--	Poor	
20.	H.S.Planer	8' stroke, 42" between columns, 48" under cross rails.	Bateman	1938	Good	Unit Motor drive.
21.	Slotting Machine	9⅝" Stroke 24" dia. Table.	Bolling & Lowe	--	Poor	
22.	Shaping machine	14" Stroke, Travel 24"	Alfred Herbert	--	Fair	Travelling Head Type.
23.	-do-	7" Stroke, 14" Travel	--	--	Fair	-do-
23.A.	-do-	6" Stroke, 20" Travel	--	--	Poor	-do-
24.	Horizontal Universal Boring Machine	Maximum Facing 60" dia.	Alfred Herbert.	--	Good	Unit Motor drive.
25.	Universal Radial Drilling Machine		Asquith.	1934	Good	Portable, Unit Motor Drive with raising Cables.

		3'-0"				Overhung type.
43.	-do-	7 cwt.-Max.Drop 2'-3"	-do-	-do-	Fair	-do-
44.	Shearing & Punching machine.	Shearing upto ¾" plate Punching 7/8" Holes in ¾" plates.	--	--	Poor	Belt Driven.
45.	Plate Bending Roller	Roll Width 7ft.	--	--	Fair	-do-
46.	Bolt Hot Forging Machine	3/8" to 7/8" bolts	Greenwood & Batley, Ltd.	--	Fair	
47.	"Sirocco" Blower		Davidson & Co.	--	Fair	Belt driven. No.6 Type
48.	Butt Welding Machine	Max. Dia.Welded 1½"	A.E.G.	--	Good	
49.	Plastic Arc Welder		Wilson	--	Good	Motor Driven. D.C.Welding Stationary.
50.	A.C.Welding Plant		--	--	Good	With Transformer. Alloy welding process.
51	Welding plants					
53.	"Sirocco" Fan.		Moulding Shop. Davidson & Co.	--	Good	Belt Driven No. 5 Type
			Drill Sharpening Shop.			
54.	Salt Bath Furnace	16" L. x 1)" W. 12".D.	--	--	Good	220 Volts.
55-56	Tip Hardening Furnaces(2)	24 Drill Type	--	--	Good	Oil Fired.
57-61	Oil Furnaces (5)		--	--	Good	
62-63	Hot Millers (2)		--	--	Good	
64-65	Drill Sharpeners (2)		Climax	--	Good	
66-67	Twin Grip " (2)		Holman	--	Good	
68-70	D.Sharpeners Large		Ingersoll-Rand	--	Good	
71	-do- small		-do-	--	Poor	

26.	Radial Drilling Machine.	--	Sandycroft.	--	Poor	
27.	-do-	--	-do-	--	Poor	
28.	Sensitive Drilling Machine.	--	--			
29.	Screwing Machine	5/8" Bolt to 4" Pipe	Landis	..	Good	
30	-do-	3/8" Bolt to 1" Pipe	-do-	1938	Good	
30.A.	-do-	3/8" Bolt to 4" Pipe	Alfred Herbert	--	Fair	
31	Universal Cutter and Tool Grinder No.4	--	do.	1938	Good	Complete with Universal Attachment for Cylindrical Surface and Internal Grinding.
31.A.	Universal Grinder	6" Centres 18" between centres	Churchill	1934	Good	Internal Grinding attachments.
32.	Tool Grinder	18" Wheels.	-	--	--	
33.	Power Hacksaw	24" Blade	-	--	--	
34.	Centre Lathe	11" centres 6'-0" between centres	--	--	Poor	Solid spindle, Cone driven.
35.	-do-	7" centres 4'-0" between centres	Redman	--	Poor	Hollow spindle, 1½" hole, Cone driven.
36.	-do-	8½" centres 4'-0" between centres	Jones Burton.	--	Fair	All Geared Head, Hollow spindle, 3" Hole.
37.	Upright Drilling Machine.	--	-do-	--	Fair	
38.	Power Hacksaw	22" Blade	--	--	Good	
39.	Centering Machine	--	--	--	Good.	

BLACKSMITH SHOP:

40-41	Upright Pillar Drilling Machines	Drilling up to 2" dia.			Fair	Circular. Belt driven.
42.	Steam Hammer					

CARPENTER SHOP.

72-73	Log Frame 8mm saws (2)	33' feed. Hold 45" logs.	Robinson & Sons.	-	Good	Belt Driven 6'-7" x 6" saws.
74	Planer	5-¾" cutter blocks 3-15/16 dia. feed rolls	Thomas White & sons	-	Good	Belt Driven 24" x 1½" H.S. Steel cutters.
75.	Planer	3¾" blocks 3" feed rolls	Robinson & Sons	-	Fair	Belt Driven- 18" x 3¾" cutters.
76.	Band Saw	12" x ¾" saw	-do-	-	Fair	Belt Driven- Pair of 30" wheels.
77.	Planer Blade Sharpner	6" x 4" x ¾" grinder	-do-	-	Good	Belt Driven. 10" dia x 1½" x 1" bore chisel grinder.
78.	Log Frame saw sharpener	12" x 5/8" x 1" bore grander.	-do-	-	Fair	Belt Driven.
79.	Circular saw bench.	36" dia. saw.	-	-	Fair	-do- 72"x 36"x36"
80.	-do-	24" dia. saw.	Robinson & Sons.	-	Fair	-do- 60"x30" x 30"
81	-do-	24" dia. saw.	--	-	Fair	-do- 54"x27" x 27"
82.	-do-	36" dia. saw.	--	-	Fair	-do- 72"x36"x36"
83.	Cir.saw sharpener	12"x3/8"x1" Bore Grinder	T.Sagar & Co.	-	Fair	Belt Driven
84.	Wood Lathe.		F.Berry & Sons.	-	Poor	-do-

" C O P Y "

M. 3	Small Drill		"	"	Used for pin drilling.
M. 4	Planing Machine.	Travel 4 feet.	"	"	2'6" wide x 2'3" high.
M. 5	Shaping machine	14" Stroke.	Sandrycroft	"	
M. 6	Slotting	18" stroke	Unknown.	"	Face or slot 3'6" x 3'2" x 18"
M.7.	Screw Cutting machine	Tangential	Kendall and Gent	12-12-31	Screw bolts to 1.½" and pipes to 3"
M. 8	Milling Machine	Type 3 T Universal Miller.	J.Parkinson & Son Shipley.	25-6-34	Greatest distance centre of spindle to top of table 20" Longitudinal feed 36" crossfeed 12".

"C O P Y."

THE CHAMPION REEF GOLD MINES OF INDIA, LIMITED.
(INCOPORATED IN ENGLAND.)
Liability of Members limited.

Directorate of Ordnance Factories.

Survey Report No. Particulars of Plant.

Appendix II to Form Mob. A.
Note: In the case of large works a separate page of this appendix to be used for each type of machine.

Index No.	Type of machine.	Capacity i.e., maximum size of job handled.	Maker's name.	Date of supply.	Condition vide sub-head 14	Remarks E.g state whether lathes are hollow spindle, give motions of milling machines, etc.
L. 1	Screw Cutting Lathe	23" dia. x 18 feet In gap 10 ft. dia.x 2'-6"	Unknown	Unknown		
L. 2	Screw cutting lathe	13" dia. x 20" feet In gap 3 ft. dia x 18"	"	"		
L. 3	Surfacing lathe	18" dia. x 14 feet In gap 3' -8" x 12"	"	"		
L.4	Screw cutting lathe	17" dia. x 13 feet In gap 2' -9" x 12"	"	"		
L. 5	Screw cutting lathe	15" dia. x 6 feet In gap.2' -10" x 12"	"	"		
L. 7	Screw cutting lathe	14" dia. x 3 feet.	"	"		1" Hollow spindle.
L.10	Screw cutting lathe	18" dia. x 4 feet.	"	1910		2" -do-
L.11	Screw cutting lathe	14" dia. x 5 feet.	"	Unknown.		
L.12	Screw cutting lathe	20" dia. x 2 feet	Made in shop	1915		
L.13	Turret Lathe	20" dia. x 6 feet	Alfred Herbert Ltd.	Unknown.		3⅜" Hollow spindle.
M. 1	Radial Drill.	Table 5 ft.x 3 ft	Shephered & Hill.			Drill up to 2" dia.

19.	Lathe sliding surfacing and screw cutting.	10'-3" between centres	Sandycroft	-	Poor	Solid spindle all heared head.
20.	-do-	11" centres 8'-9" between centres	J.W.Carr	-	Fair	1⅛" Hollow spindle.
21.	Gap Lathe sliding surfacing and screw cutting.	7.½" centres 5'-4" between centres	Smith and Coventry.	-	Fair	Solid spindle all geared head.
22.	Lathe sliding surfacing and screw cutting.	7½" centres 6'-0" between centres	---	-	Fair	Complete with Universa vertical attachments.
24.	Radial Drilling machine	3'- 6" Drilling arm.				
25.	Universal Milling machine	Longitudinal feed 36" Transverse " 12" Vertical 18"				
28.	Sensitive Drilling machine	16" dia. table.	Jones Shipman	1920	Good	Solid spindlr 1½" to Drill 6" deep.
30.	Slotting machine.	9" stroke 30" dia. tabl-	Smithy & Coventry.	-	Fair	
31.	Rapid Power Hack saw.	18" Blade.	Albert Herbert	-	Fair	
32.	Lathe sliding & surfacing.	6" centres.	--	-	Poor	2" Hollow spindle.
33.	Gap lathe sliding surfacing and screw cutting.	4" centres 1'-10" between centres	Brittannia	1922	Fair	3/8" Hollow spindle all geared head.
34.	-do-	6-½" centres 3'-0" between centres	Atlas	1928	Good	1-½" Hollow spindle all geared head.
35.	Screwing machine.	Bolts 3/8" to 1.½" and pipes up to 2"	Landis.	1938	Good	Landis 2" Sh[illegible] head pick of gears [illegible] 7 spindle speeds.
	Tool Grinder.	6" wheels.	Mine made	1940	Good	

THE OOREGAUM GOLD MINING COMPANY OF INDIA, LTD.
(INCORPORATED IN ENGLAND).

Directorate of Ordnance Factories.
Survey Report No.

Particulars of the plant.

Appendix II to form Mob.A.
Note:-In the case of large works a separate page ofthis appendix to be used for each type of machine.

Index No.	Type of machine.	Capacity i.e., Maximum size of job handled.	Maker's name.	Date of supply.	Condition vide sub-head 14.	Remarks e.g. state whether lathes are hollow spindle, give motions of milling machines etc.
1	2	3	4	5	6	
1	Gap lathe sliding surfacing and screw cutting.	10" centres 5'-5" between centres	Sandycroft.	-	Very poor rough work only.	Solid spindle all geared head.
2.	-do-	14" centres. 12' 2" between centres	Ibbatson	-	Fair	-do-
3.	-do-	10" centres 10' 3" between centres	Balling & Lawe	-	Fair	-do-
4.	Lathe sliding surfacing & screw cutting.	12" centres 12'-4" between centres	Sandycroft	-	Fair	-do-
5.	Horizontal Boring Machine	Maximum facing 24" dia.	H.W.Learne	1920	Good	
6.	Planning Machine	10'-6" Stroke 4' 2" between columns 3'-6" Cross Rails.	John Strik	1920	Good	
8.	Gap Lathe Sliding surfacing and screw cutting.	10" centres 6'-8" between centres	Ruder	1920	Good	1.¾" Hollow spindle all geared head.
9.	Slotting Machine	10" stroke 36" dia. table.	Wm. Muir	1920	Good	
10.	Sensitive Drilling Machine	21" dia. table.	Corrona No.7A Alfred Herbert	1920	Good	Solid spindle 2" dia. to drill 8" deep.
11.	Radial Drilling machine	3' Drilling Arm.	Tullis	1920	Fair	
15.	Shaping machine	18" Stroke Travel 24"	John Burton	1914	Fair	Travelling Head Type.

THE KOLAR GOLD FIELD ELECTRICITY DEPARTMENT.

Particulars of plant.

Appendix II to Form Mob.A.

Note:-In the case of large works a separate page of their appendix to be used for each type of machine.

Index No.	Type of Machine.	Capacity i.e., maximum size of job handled.	Maker's name.	Date of supply.	Condition vide sub-head 14	Remarks e.g state whether lathes are hollow spindle give motions of milling machines etc.
1	2	3	4	5	6	7
1	Centre lathe (U.C.)	15" centres, work of 19" dia. x 8' 6" over saddle	S.W.Putnam Sons, Mass U.S.A.	About 30 years old	Inaccurate	2" Hollow spindle.
2.	-do-	6" centres, work of 8" dia. x 3' over saddle.	Tangye Ltd.,Birmingham		-do-	Solid spindle.
3.	-do-	6¾" centres, work of 8" dia. x 2'-6" over saddle	F.E.Reed Co., Mass, U.S.A.		-do-	-do-
4.	-do-	3.½" centres,Work of 3" dia. x 20" over saddle.	Drummond Bros Ltd., Guildford.	1925	-do-	-do-
5.	Semo Auto Captain Capstan.	Centre 6.½" work of 7" x 1'-6" over saddle.	Alfred Herbert (India) Ltd., No.4	Dec. 1936	First class	2" Hollow spindle equipped for Chuck work.
6.	Shaping Machine.	23" Stroke work 12" x 12" x 12"	Unknown.	About 30 years old	Very poor	
7.	Milling Machine.	Table 3' x 15"	Dickenson & Co., Keighley.		Inaccurate	Double horizontal traverse.
8.	Pillar Driller	Chuck to Table 3' Drills 1" holes.	Barnes & Co., Rockford U.S.A.	About 1900	Very poor	
9.	Radial Driller	Chuck to table 27" Bed 3' x 2' 6"	Unknown	1920	-do-	
10.	Sensitive Driller	Drills ⅛ ½" Hole.	Maxwell Co., New York.	1920	-do-	

8. Radial Drilling Machines

9. Vertical Milling Machines - Nil.

10. Horizontal " " 1 13" gap, 2' 9" travelling length.

11. Cylindrical, Multipurposes & Centresless grining machines - Nil.

12. Surface grinders. - Nil.

13. Tool and Cutter Grinders - 3 Ordinary tool sharpening grinders.

14. Slotting Machines - 1, 11" stroke, 18" trav. length, 1'-8" gap.

15. Broaching machines - Nil.

16. Power Presses - Nil.

17. Stand Presses. - Nil.

18. Heat Treatment Furnaces, Electric, Gas & Oil Fired - Nil.

19. Forging Machines - Nil.

20. Foundry Machines. - Nil.

21. Saw Mill machines. - 2 Loggin, logs up to 3.½" in dia. 24" stroke.

22. Key seating machines - Nil.

23. Automatics - Nil.

24. Screwing Machines, Bolts & Pipes - 3 - ¼" to 2.½" dia. pipes & 1." to 1-½" dia. bolts.

25. Blowers. - 3 Roots Blacksmiths Blowers.

26. Compressors - Nil.

27. Bar Reeling machines - Nil.

C O P Y.

THE MYSORE GOLD MINING COMPANY LTD.
DETAILS OF MACHINE TOOLS HELD.

Item.

1. Lathes, Sliding, surfacing & Screw cutting. .. 16 all screw-cutting.

	Capacity i.e., maximum size handled.	Length between centres.	Dimension of hollow spindle.	Dimension of Gap.
Lathe.	8.¾" centres	4'-10"	1.¾"	13.½"
"	8.½" "	6'-3"	No.	14"
"	12.½" "	13'-2"	No.	16"
"	8.½" "	4'-8"	1.½"	No.
"	6.¼" "	3'-8"	No.	10.½"
"	9" "	4'-8"	1.½"	No.
"	12" "	12'-2"	No.	8"
"	8" "	8'-5"	2"	2"
"	14" "	12'-6"	No.	3-½"
"	14" "	21'-8"	No.	pto 7 ft.
"	7.¾" "	2'-9"	No.	0"
"	7.½" "	3'-2"	No.	0"
"	7.½" "	3'-5"	No.	9"
"	6" "	4'-10"	1"	7"
"	6" "	3'-3"	No.	8.½"
"	7" "	3'-3"	1.¾"	1"

2. Lathes, Capstan, Turret etc. 1 Turret. 12" " 4'-2" 4" No.

3. Shaping Machines - 3.
20" stroke, 5'-9" travelling length
14" " 13" " "
10" " 18" " "

4. Horizontal Boring & Turning Mills - 1 Universal, 4'-3" Length between centres.

5. Vertical " " " - Nil.

6. Planning Machines including open side - 2 (open side Nil)
Stroke 4'-0" 24" trav. length
" 5'-0" 30" " "

7. Drilling Machines (other than Radial) 2 One 18" length between centres.
one 11" -do-

The Oorgaum Gold Mining Company of India, Limited.
(Incorporated in England.)
Saw Mill.

Index No.	Type of machine.	Capacity i.e., maximum size of job handled.	Maker's name.	Date of supply.	Condition vide sub-head 14.	Remarks e.g. State whether lathes are hollow spindle, give motion of milling machine etc.
1.	Bandsaw.	1¼" x 17'-2"	Mine Made.	-	Good	
2.	-do-	6" x 41'-3"	T.Robinson & Son.	-	"	
3.	Circular saw.	3'-6" dia.	Ibbotson Brothers.	-	"	
4.	-do- small.	2'-6" dia.	Slack Sellers & Company.	-	"	
5.	Planning machine	Blade 15¼" x 3¾"	A. Ransome & Co.	-	"	
6.	Sharpending machine.		-do-	-	"	

Oorgaum.
20th January 1941

Sd/- G. Benn White.
Superintendent.

Sd/- J.V. Everitt
Chief Engineer.

C O P Y.

THE MYSORE PAPER MILLS, Ltd.,
Bhadravati.

List of Machine Tools.

i) Improved Heavy Type "London", Self Acting, Sliding, Surfacing and Screw cutting Lathe -

with "Pratt" Dog chuck

Length of Bed	.. ..	10 ft.
Width " "	.. ..	12 inches.
Height of centre	..	8½ "
Between centres	..	77 "
Hollow spindle	..	2 1/16 "
"Pratt" chuck	..	16 inches.

ii) High speed precision drilling machine, column style with drilling capacity up to 1½", and with universal swivelling vice and table -

Distance centres of spindle to column .. 13½"

iii) High speed crank shaping machine with cone pulley drive and with detachable table, swivelling vice etc., -

Stroke .. 12 inches.

iv) Precision roll grinding machine of voltas' make to accommodate rolls up to 3200 mm dia., and 3000 mm face length

v) Tool grinder to accommodate two grinding stones each 12" dia., and two inches wide

vi) Air compressor set of Chicago Pneumatic Tool Company -

Diameter of Piston	..	5½"
Stroke " "	..	5"
Normal R.P.M.	..	600
Minimum R.P.M.	..	300
Maximum Pressure	..	150 lbs. per sq. inch (continuous operation)
Lubricating oil capacity		1/2 gallon.

******

THE MYSORE MATCH CO., LTD., Shimoga.

1. Sliding, surfacing and screw-cutting Gap bed Lathe with front feed shaft and apron saddle with four quick changes of feed. Admits between centres 4' swing over the saddle, 10" diameter. One

2. Shaping Machine 12" stroke. .. One

3. Pillar-drilling Machine. Distance between pillar and chuck centre 18" One

---

THE MYSORE IMPLEMENTS FACTORY, Hassan.

1. One Imperial Lathe of 6 ft. length and 4 ft. sliding surface and screw cutting.

2. One drilling machine non radial up to 1" drilling capacity.

3. " " " " " up to ½" " "

4. One Electric Mufful Furnace for heat treatment up to 1000 degrees Centigrade. Inside measurement 6" x 3" x 12"

THE MYSORE PAPER MILLS, Ltd.,
Bhadravati.

List of Machine Tools.

i) Improved Heavy Type "London", Self Acting, Sliding, Surfacing and Screw cutting Lathe -

with "Pratt" Dog chuck

Length of Bed	.. ..	10 ft.
Width " "	.. ..	12 inches.
Height of centre	..	8½ "
Between centres	..	77 "
Hollow spindle	..	2 1/16 "
"Pratt" chuck	..	16 inches.

ii) High speed precision drilling machine, column style with drilling capacity up to 1½", and with universal swivelling vice and table -

Distance centres of spindle to column .. 13½"

iii) High speed crank shaping machine with cone pulley drive and with detachable table, swivelling vice etc., -

Stroke .. 12 inches.

iv) Precision roll grindingmachine of Voiths' make to accommodate tolls up to 3200 mm dia., and 3000 mm face length

v) Tool grinder to accommodate two grinding stones each 12" dia., and two inches vide

vi) Air compressor set of Chicago Pneumatic Tool Company -

Diameter of Piston	..	5½"
Stroke " "	..	5"
Normal R.P.M.	..	600
Minimum R.P.M.	..	300
Maximum Pressure	..	150 lbs. per sq. inch (continuous operation)
Lubricating oil capacity		1/2 gallon.

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2. One drilling machine non radial up to 1" drilling capacity.

3. " " " " " up to ½" " "

4. One Electric Mufful Furnace for heat treatment up to 1000 degrees Centigrade. Inside measurement 6" x 3" x 12"

5. Two pneumatic Power Hammers 3 cwts. for forging.
6. One " " " 2 " " "
7. One spring hammer for forging - 100 lbs.
8. Two " hammers " " - 60 lbs. each.
9. Fan blower 8" one and 6" one
10. 8" Circular Saw-bench one.

C O P Y.

5. Two pneumatic Power Hammers 3 cuts. for forging.
6. One " " " 2 " " "
7. One spring hammer for forging - 100 lbs.
8. Two " hammers " " - 60 lbs. each.
9. Fan blower 8" one and 6" one.
10. 8" Circular Saw-bench one.

C O P Y.

Sl. No.	Name and address of Factory possessing Machine Tools.	Lathes, sliding, surfacing and screw cutting.	Lathes, capstain, turret, Etc.	Shaping Machines.	Vertical Boring and Turning Mills.	Horizontal Boring and Turning "	Planing Machines including open side.	Drilling Machines other than radial	Radial Drilling Machines.	Vertical Milling Machines.	Horizontal Milling Machines.
		1	2	3	4	5	6	7	8	9	10
1.	The Bangalore Woollen Cotton & Silk Mills Co., Ltd., Bangalore.	18	-	2	-	-	1	4	3	-	1
2.	The Central Industrial Workshop, Bangalore.	1 13(under repairs)	3	(One Not in working Order)	-	1 (small)	2	3	2	-	1 (Univer
3.	The Steel Construction Co., Ltd., Hardinge Road, Shankarapuram, Basavangudi P.O., Bangalore.	5	-	2	-	-	1	2	-	1	3
4.	The Globe Iron Foundary, Magadi Road, Bangalore.	3	1 wheel turning lathe not in service.	1	-	-	1	2	-	-	-
5.	Messrs. Shanmugam & Sons., Engineering works and repair workshop, Kalasipalyam, B'lore City.	Particulars not received.									
6.	The Government Electric Factory, Mysore Road.	Particulars separately (vide list attached									
7.	Messrs. P.M.Mudharai Mudaliar, & Sons., Iron Foundary, Cottonpet.	Particulars not received.									
8.	Messrs. Eswara Iron Foundary, near City Railway Station.	—	-	-	-	-	-	-	-	-	-
9.	Messrs.Khoday Engineering Works, near City Railway Station.	5	-	1	-	-	1	2	-	-	-
10.	Messrs.ORM and EMM Textile Engineering, Cottonpet, B'lore City.	2	1	2	-	-	-	2	1	—	-
11.	Sri Krishna Engineering Works, B'lore.	Particulars not received.									
12.	The Mysore Metal Industries, Ltd., Mgm Magadi Road.	-do-									
13.	The Mysore Glass & Enamel Works, Ltd., Yelhanka.	-do-									

Multispindle and centreless	Surface grinders.	Tool and Cutter Grinders.	Slotting Machines.	Broaching Machines.	Power Presses.	Stamd Presses.	Heat Treatment, Furnaces, Electric, Gas, Oil fired.	Forging Machines.	Foundry Machines.	Saw Mill Machines.	Key seating Machines.	Automatics.	Screwing Machines, Bolts and pipes.	Electric.	Compressors.	Ex Rolling Machines.	Miscellaneous.
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
-	1	-	1	-	-	-	-	-	-	1	-	-	1	2	2	-	
-il)	-	2	2	-	-	2	1 (annealing furnace for cast iron articles not in commission)	-	1	1	Circular saw 1½ ton Hand moulding pneumatic Machine. Power hammer.		1	3	1	-	
-	1	-	1	-	-	-	1	-	-	-	-	-	-	1	-	-	
-	1	-	1	-	-	-	1 6 tons casting Capacity.	-	-	-	-	-	-	1	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	2	-	-	-	2 Furnace to meet 3 & 18 Tons.	-	-	-	-	-	-	2	-	-		
-	3	1	-	-	-	4	-	-	-	-	-	-	-	-	-		

Sl. No.	Name and address of Factory possessing Machine tools.	1	2	3	4	5	6	7	8	9	10	11	12
14	Jubilee Saw Mills, Cottonpet, Bangalore City.	-	-	-	-	-	-	-	-	-	-	-	-
15	Annapurna Cooker Co., Basavangudi.	4	-	-	-	-	-	2	-	-	-	-	-
16	Sattarkhan's Workshop, Narasimharaja Road.												
17	Normal & Training Institute, & Workshop, Kolar.	2	-	-	-	-		2	-	-	-	1	1
18	John Taylor & Sons, Gold Mining Co., Ltd.,				1 14"								
19	The Mysore Sugar Co., Ltd., Mandya.	-	4 Lathes	1(24" all geared lathe 1(11" -do-) 1(9" -do-) 1(6 " -do-)	stroke		1	-	2 (one 4" & 2 other 3" long arm)	-	-	-	-
20	The Mysore Iron & Steel Works.	Particulars separately furnished. (Vide Statem											
21	B.M.Engineering Works, Brass and Iron Founders, Chickmagalur	5	-	-	-	-	-	2	-	-	-	-	-
22	Sri Amuteswara Saw and Rice Mills, Tarikere.	-	-	-	-	-	-	-	-	-	-	-	-
23	Methodist Mission Workshop and Industrial School, Tumkur.	3 wood turning lathes	-	One spindle moulding Machine.	-	-	1	-	-	-	-	1	-
24	Sri Basaveswara Saw Mills, Tarikere.	-	-	-	-	-	-	-	-	-	-	-	-
25	Sri Chamarajendra Technical Institute, Mysore.	7 (5 not in good working order)	-	1 of 10" stroke	-	-	-	2 (not in good working order).	-	-	-	1 tool grinder	-
26	Government Saw Mills, Shimoga	-	-	-	-	-	-	-	-	-	-	-	-
27	The Sarvamanya Saw Mills & Wood Works, Mysore South.	-	-	-	-	-	-	-	-	-	-	-	-
28	Siddalingeswara Samy Saw Mills & Wood Works, Mysore.	-	-	-	-	-	-	-	-	-	-	-	-
29	The District Industrial Workshop, Shimoga.	2	-	1	-	-	-	1	1	-	-	-	-
30	M/s John Taylor & Sons, Mining Company, K.G.F.	Details not yet received.											
31	Mysore Railway Workshop	Details not yet received.											

13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
-	-	-	-	-	-	-	-	Saw Mills	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
-	1	-	-	-	-	-	-	3	-	-	-	-	-	-	- One Metal Bar Cutter One Metal Punch.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- (2 One Compound air Compressor Belt driven Air Cylinders and 1 angle Cylinder air compressor).

II).

2	-	-	-	-	1	-	2 Metal melting Furnace & Oxy-Acetylene Welding plant)	-	-	-	1	1	1	—	
-	-	-	-	-	-	-	-	1 2 Frames & 1 Bench.	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	5 One Horizontal Log Sawing Machine. One B and Saw. One Cir. Saw. One Cross Cutting saw. One Front Saw with boring attachment.							One Chain mortising machine and one Gulloting machine.
-	-	-	-	-	-	-	-	- inverti- cal saw frame & 1 saw bench.	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	3 (A small circular saw Bench, One Band saw and One Horizontal power Sewing Machines)	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	- Circular- saws 36" by 1½" Frame saws 5' 3½" ~~xxxxxxxxx~~ cross cutting hand saws.	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	- One vertical frame saw mill, one circular saw bench, One Electric moulding machine, one Electric wood turning head stock.	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	- 1 vertical saw mill 2 Circular saw Mill.	-	-	-	-	-	-	
1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-

			24" trav. length.
7. Drilling Machines (Other than Radial)		2	One 18" length between centres. One 11" do.
8. Radial Drilling Machines	-	2	One 3'-10" and another 4'-3" radial distance.
9. Vertical Milling Machines	-	Nil.	
10. Horizontal Milling Machines	-	1	13" gap, 2'-9" travelling length.
11. Cylindrical, Multipurpose & Centreless Grinding Machines - Nil.			
12. Surface Grinders	-	Nil.	
13. Tool & Cutter Grinders	-	3 Ordinary tool sharpening grinders.	
14. Slotting Machines	-	1, 11" stroke, 18" trav. length, 1'-6" gap.	
15. Broaching Machines	-	Nil.	
16. Power Presses	-	Nil.	
17. Stand Presses	-	Nil.	
18. Heat Treatment Furnaces, Electric, Gas & Oil fired - Nil.			
19. Forging Machines	-	Nil.	
20. Foundry Machines	-	Nil.	
21. Saw Mill Machines	-	2 Loggin, logs up to 3.1/2" in dia. 24" stroke.	
22. Key Seating Machines	-	Nil.	
23. Automatics	-	Nil.	
24. Screwing Machines, Bolts & Pipes	-	3. - 1/4" to 2.1/2" dia. pipes & 1.1/4" to 1.1/2" dia. bolts.	
25. Blowers	-	3 Roots Blacksmiths Blowers.	
26. Compressors	-	Nil.	
27. Bar-Reeling Machines	-	Nil.	

RECORDS JOHN TAYLOR & SONS' COMMITTEE
FEB 4 1941
OORGAUM

KVC.

THE MYSORE GOLD MINING COMPANY LIMITED.

Details of Machine Tools held.

Item.

1. Lathes, Sliding, Surfacing & Screw Cutting .. 16 all screw-cutting.

	Capacity i.e. maximum size handled.	Length between centres.	Dimension of hollow spindle.	Dimen. of Gap.
Lathe	8.3/4" centres.	4'-10"	1.3/4"	13.1/2"
do.	8.1/2" "	6'- 3"	No.	14"
do.	12.1/2" "	13'- 2"	No.	16"
do.	8.3/4" "	4'-8"	1.1/2"	No.
do.	6.1/4" "	3'-8"	No.	10.1/2"
do.	9" "	4'-8"	1.1/	No.
do.	12" "	12'-2"	No.	18"
do.	8" "	8'-5"	2"	12"
do.	14" "	12'-6"	No.	13.1/2"
do.	14" "	21'-8"	No.	Up to 7 ft.
do.	7.3/4" "	2'-9"	No.	10"
do.	7.1/2" "	3'-2"	No.	10"
do.	7.1/2" "	3'-5"	No.	9"
do.	6" "	4'-10"	1"	7"
do.	6" "	3'-3"	No.	8.1/2"
do.	7" "	3'-3"	1.3/4"	11"
2. Lathes, Capstan, Turret etc.	1 Turret. 12" "	4'-2"	4"	No.

3. Shaping Machines - 3.

20"	stroke,	5'-9"	travelling length.
14"	"	13"	" "
10"	"	18"	" "

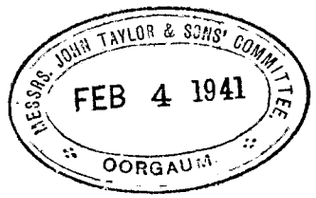
4. Vertical Boring & Turning Mills - Nil.

5. Horizontal Boring & Turning Mills - 1 Universal, 4'-3" length between centres.

6. Planing Machines including open side - 2 (Open side Nil)

L.	13	Turret Lathe	~~20" dia. x 2 feet~~ 20" dia. x 6 feet.	Made in Shop. Alfred Herbert Ltd.	1915 Unknown.	$3\frac{3}{4}$" Hollow spindle
M.	1	Radial Drill.	Table 5 ft. x 3 ft.	Shepherd & Hill.	"	Drill up to 2" dia.
M.	2	Vertical Pillar Drill	Table 2'-4" dia.	Unknown.	"	Drill up to 1.1/2" dia.
M.	3	Small Drill		"	"	Used for pin drilling.
M.	4	Planing Machine.	Travel 4 feet.	"	"	2'6" wide x 2'3" high.
M.	5	Shaping Machine.	14" Stroke.	Sandycroft.	"	
M.	6	Slotting "	18" Stroke.	Unknown.	"	Face or slot 3'6" x 3'2" x 18".
M.	7	Screw Cutting Machine	Tangential.	Kendall and Gent.	12-12-32.	Screw bolts to 1.1/2" and pipes to 3".
M.	8	Milling Machine.	Type 3 T Universal Miller.	J. Parkinson & Son, Shipley.	25- 6-34.	Greatest distance centre of spindle to top of table 20" Longitudinal feed 36" crossfeed 12".

Champion Reefs,)
)
14th January, 1941.)



KVC.

THE CHAMPION REEF GOLD MINES OF INDIA, LIMITED.

(Incorporated in England).
Liability of Members Limited.

DIRECTORATE OF ORDNANCE FACTORIES.

SURVEY REPORT No.

PARTICULARS OF PLANT.

Appendix II to Form Mob A.
Note; In the case of large works a separate page of this appendix to be used for each type of machine.

Index No.	Type of Machine.	Capacity i.e. maximum size of job handled.	Maker's name.	Date of Supply.	Condition vide Subhead 14	Remarks e.g. state whether lathes are hollow spindle, give motions of milling machines etc.
L. 1	Screw Cutting Lathe	23" dia. x 18 feet In gap 10 ft.dia.x 2'-6"	Unknown	Unknown		
L. 2	Screw Cutting Lathe	13" dia. x 20 feet In gap 3 ft. dia.x 18"	"	"		
L. 3	Surfacing Lathe	18" dia. x 14 feet In gap 3'-8" x 12"	"	"		
L. 4	Screw Cutting Lathe	17" dia.x 13 feet In gap 2'-9" x 12"	"	"		
L. 5	Screw Cutting Lathe	15" dia. x 6 feet in gap 2'-10" x 12"	"	"		
L. 7	Screw Cutting Lathe	14" dia. x 3 feet.	"	"		1/2" Hollow spindle.
L. 10	Screw Cutting Lathe	18" dia. x 4 feet.	"	1910		2" do.

THE OOREGUM GOLD MINING COMPANY OF INDIA, LIMITED.
(Incorporated in England).

SAW MILL.

Index No.	Type of Machine.	Capacity i.e. maximum size of job handled.	Maker's Name.	Date of Supply.	Condition vide sub-head 14.	Remarks. e.g. State whether lathes are hollow spindle, give motions of milling Machines, etc.
1	Bandsaw	1¼" x 17'-2"	Mine Made.	-	Good	
2	do.	6" x 41'-3"	T. Robinson & Son	-	"	
3	Circular Saw. ..	3'-6" dia.	Ibbotson Brothers	-	"	
4	do. do. Small ..	2'-6" dia.	Black sellers & Company.	-	"	
5	Planning Machine. ..	Blade 15¼" x 3¾"	A. Ransome & Co.	-	"	
6	Sharpening Machine ..	-	do.	-	"	

Oorgaum,
20th January 1941.

JOHN TAYLOR & SONS' CO-LIMITED
FEB 4 1941
OORGAUM

(Sd.) G. BENN WHITE.
Superintendent.

(Sd.) J. V. EVERITT.
Chief Engineer.

KVC.

9	Slotting Machine	18" Stroke 36" dia. Table.	Wm - Muir	1920	Good	
10	Sensitive Drilling Machine.	21" dia. Table.	Corrona No.7A Alfred Herbert	1920	Good	Solid spindle 2" dia. to drill 8" deep.
11	Radial Drilling Machine.	3' Drilling Arm	Tullis	1920	Fair	
15	Shaping Machine.	18" Stroke Travel 24"	John Burton	1914	Fair	Travelling head type.
18	Lathe Sliding Surfacing and Screw cutting.	9.1/2" centres 10'-3" between centres.	Sandycroft.	-	Poor	Solid Spindle.
20	do.	11" centres 8'- 9" between centres	Sandycroft	-	Poor	Solid Spindle all geared head.
21	Gap Lathe Sliding Surfacing and Screw cutting.	7.1/2" centres 5'- 4" between centres.	J. W. Carr	-	Fair	$1\frac{1}{4}$" Hollow Spindle.
22	Lathe Sliding Surfacing and Screw cutting.	$7\frac{1}{4}$" centres 6'- 0" between centres.	Smith & Coventry.	-	Fair	Solid Spindle all geared head.
24	Radial Drilling Machine.	3'- 6" Drilling Arm.	-	-	Fair	
25	Universal Milling Machine.	Longitudinal feed 36" Transverse " 12" Vertical 18"				Complete with universal vertical attachments.
28	Sensitive Drilling Machine.	16" dia. table.	Jones shipman	1920	Good	Solid Spindle $1\frac{1}{2}$" To drill 6" deep
30	Slotting Machine.	9" Stroke 30" dia Table.	Smith & Coventry.	-	Fair	
31	Rapid Power Hack Saw.	18" Blade	Alfred Herbert.	-	Fair	
32	Lathe Sliding and surfacing.	6" Centres.	-	-	Poor	2" Hollow Spindle.

THE OOREGUM GOLD MINING COMPANY OF INDIA, LTD.
(Incorporated in England).

Appendix II to Form Mob A.

Note:- In the case of large works a separate page of this appendix to be used for each type of Machine.

DIRECTORATE OF ORDNANCE FACTORIES.

SURVEY REPORT NO. PARTICULARS OF PLANT.

Index No.	Type of Machine.	Capacity i.e. maximum size of job handled.	Maker's Name.	Date of supply.	Condition vide sub-head 14.	Remarks e.g. State whether lathes are hollow spindle, give motions of milling machines, etc.
1	2	3	4	5	6	7
1	Gap Lathe Sliding Surfacing and Screw cutting.	10" centres 5' - 5" between centres	Sandycroft	-	Very poor rough work only	Solid spindle all geared head.
2	do.	14" centres 12'- 2" between centres	Ibbatson	-	Fair	do.
3	do.	10" centres 19'- 3" between centres	Balling & Lawe	-	Fair	do.
4	Lathe Sliding Surfacing and Screw cutting.	12" centres 12'- 4" between centres	Sandycroft	-	Fair	do.
5	Horizontal Boring Machine.	Maximum facing 24" dia.	H.W. Kearno.	1920	Good	
6	Planning Machine	10'- 6" Stroke 4'- 2" between columns. 3'- 6" under Cross Rails.	John Stirk	1920	Good	
8	Gap Lathe Sliding Surfacing and Screw	10" centres 6'- 8" between centres	Ryder.	1920	Good	1.1/2" Hollow Spindle all

1	2	3	4	5	6	7
33	Gap Lathe Sliding Surfacing and Screw cutting.	4" centres. 1'-10" between centres.	Britannia.	1922	Fair	3/8" Hollow Spindle all geared head.
34	do.	6.1/2" centres. 3'- 0" between centres.	Atlas	1928	Good	1.1/2" Hollow Spindle all geared head.
35	Screwing Machine.	Bolts 3/8" to 1.1/2" and pipes up to 2".	Landis	1938	Good	Landis 2" Single h ea pick of gears to give 6 spindle speeds.
-	Tool Grinder.	6" Wheels.	Mine Made	1940	Good.	

Ooregum Gold Mining Co., Ltd.)
)
Oorgaum, 17th January 1941.)

Sd/- G. BENN WHITE.
SUPERINTENDENT.

Sd/- J. V. EVERITT.
CHIEF ENGINEER.

8	do.	11½" centres 16' between centres	--	--	Poor	do.
9	do.	8½" centres 7' between centres	Binns & Berry	--	Fair	Cone Driven, Hollow Spindle 2" Hole.
10	do.	7" centres 4' between centres	Southbend	--	Fair	Hollow Spindle, 1" Hole.
11	do.	6½" centres 3'- 6" between centres	Alfred Herbert	--	Good	Hollow Spindle, 1½" Hole.
12	do.	6" centres 4'- 0" between centres	--	--	Poor	Solid Spindle.
13	do.	7" centres 3'- 6" between centres	--	--	Poor	Solid Spindle.
14	do.	6" centres 8'- 0" between centres	Alfred Herbert	1938	Good	Hollow Spindle, 2" Hole.
15	do.	7" centres 3'- 0" between centres	Darling & Sellers	--	Good	Hollow Spindle, 2½" Hole Reconditioned.
16	do.	do.	do.	--	Good	do.
16 A	do.	do.	do.	--	Good	do.
17	Universal Miller	28" Longitudinal feed, 10" Transverse feed, 18½" Vertical feed.	Parkson	1934	Good	Complete with Universal Vertical Attachment.
18	do.	28" Longitudinal feed, 8½" Transverse feed, 19" Vertical feed.	Brown & Sharpe	1938	Good	
19	Planer	6' Stroke, 30" between Columns, 28" under Cross Rails.	--	--	Poor	
20	H.S. Planer	8' Stroke, 42" between Columns, 48" under Cross Rails.	Bateman	1938	Good	Unit Motor Drive.

NUNDYDROOG MINES LIMITED.

MACHINE TOOLS IN WORKSHOPS.

FITTING SHOP.

Index No.	Type of Machine.	Capacity, i.e. maximum size of job handled.	Maker's Name.	Date of supply.	Condition.	Remarks. e.g. state whether lathes are hollo spindle, give motions of milli machines, etc.
1	2	3	4	5	6	7
1	Centre Lathe.	12" centres 8'- 0" between centres	Dean, Smith & Grace	1911	Good	Solid Spindle, All gear Head, Unit Motor Drive. Re-conditioned.
2	do.	do.	do.	1911	Fair	do.
3	do.	13½" centres 8'- 6" between centres	Binns & Berry.	1938	Good	Hollow Spindle, 4" Hole, All Geared Head, Unit Motor Drive.
4	do.	16½" centres 17' between centres.	Broadbent	1935	Good	Solid Spindle, Unit Motor Drive, All Geared Head, Swings 14' in Gap.
5	do.	13" centres 18' between centres	--	--	Poor	Cone Driven, Solid Spindl Being re-conditioned.
6	do.	7" centres 3' between centres	--	--	Fair	do.
7	do.	13" centres				

33	~~Power Hacks~~	~~4'-0" between centres~~	--	--	Poor	Solid Spindle, Cone Driver
35	do.	7" centres 4'-0" between centres	Redman	--	Poor	Hollow Spindle, 1½" Hole, Cone Driven.
36	do.	8½" centres 4'-0" between centres	Jones Burton	--	Fair	All Geared Head, Hollow Spindle, 3" Hole.
37	Upright Drilling Machine.	--	do.	--	Fair	
38	Power Hacksaw	22" Blade	--	--	--	
39	Centering Machine	--	-	--	Good	
			BLACKSMITH SHOP.			
40-41	Upright Pillar Drilling Machines	drilling upto 2" dia.	--	--	Poor	Circular. Belt Driven.
42	Steam Hammer	20 cwt.-Max. Drop 3'-0"	B.& S.Massey.	--	Fair	Overhung type.
43	do.	7 cwt.-Max. Drop 2'-3"	do.	--	Fair	do.
44	Shearing & Punching Machine.	Shearing upto 3/4" plate Punching 7/8" Holes in 3/4" plates	--	--	Poor	Belt Driven.
45	Plate Bending Roller	Roll Width 7 ft.	--	--	Fair	do.
46	Bolt Hot Forging Machine	3/8" to 7/8" bolts.	Greenwood & Batley, Ltd.	--	Fair	
47	"Sirocco" Blower		Davidson & Co.	--	Fair	Belt Driven. No. 6 Type.
48	Butt Welding Machine	Max. Dia. Welded 1½"	A.E.G.	--	Good	
49	Plastic Arc Welder		Wilson	--	Good	Motor Driven. D.C.Weldir Stationary.
50	A.C. Welding Plant		--	--	Good	With Transformer. Alloy Welding Process.
51-52	A.C. Welding Plants		..	--	Good	

1	2	3	4	5	6	7
21	Slotting Machine	9½" Stroke 24" dia. Table	Bolling & Lowe	--	Poor	
22	Shaping Machine	14" Stroke, Travel 24"	Alfred Herbert	--	Fair	Travelling Head Typo.
23	do.	7" Stroke, 14" Travel	--	--	Fair	do.
23 A	do.	6" Stroke, 20" Travel	--	--	Poor	do.
24	Horizontal Universal Boring Machine	Maximum Facing 60" dia.	Alfred Herbert	--	Good	Unit Motor Drive.
25	Universal Radial Drilling Machine	--	Asquith	1934	Good	Portable, Unit Motor Drive with Trailing Cables.
26	Radial Drilling Machine.	--	Sandycroft	--	Poor	
27	do.	--	do.	--	Poor	
28	Sensitive Drilling Machine.	--	--	--	Poor	
29	Screwing Machine	5/8" Bolt to 4" Pipe		--	Good	
30	do.	3/8" Bolt to 1" Pipe	do.	1938	Good	
30 A	do.	3/8" Bolt to 4" Pipe	Alfred Herbert	--	Fair	
31	Universal Cutter & Tool Grinder No.4	--	do.	1938	Good	Complete with Universal Attachment for Cylindrical Surface and Internal Grinding.
31 A	Universal Grinder	6" centres 18" between centres	Churchill	1934	Good	Internal Grinding Attachments.
32	Tool Grinder	18" Wheels 24" Blade	--	--	--	